#### **SEC 3 - APPLIED COST ACCOUNTING**

L T P C 5 1 - 4

#### **SCOPE**

Applied Cost Accounting represents the concepts on Costing, Material Control, Overhead Costing, Job Costing and Contract Costing. This paper gives the basic aspects of tools and techniques of Inventory Control, Batch Costing, Process Costing and Job Costing.

#### **OBJECTIVES**

- To familiarize students with the various concepts in Costing.
- To make the students to understand the elements of Cost.
- To enhance the students knowledge on Overhead Costing.

#### **UNIT I**

Introduction - Meaning - Objectives and Advantages of Cost Accounting - Difference between Cost Accounting and Financial Accounting - Cost Concepts and Classifications - Elements of Cost - Installation of a Costing System - Role of a Cost Accountant in an Organisation - Preparation of Cost Sheet in Lien with Cost Accounting Standards.

#### **UNIT II**

Elements of Cost: Material and Labour - Materials - Material/Inventory Control Techniques - Accounting and Control of Purchases - Storage and Issue of Materials - Methods of Pricing of Materials Issues - FIFO - LIFO - Simple Average - Weighted Average - Replacement - Standard Cost - Treatment of Material Losses - Labour - Accounting and Control of Labour Cost - Time Keeping and Time Booking - Concept and Treatment of Idle Time - Over Time - Labour Turnover and Fringe Benefits - Methods of Wage Payment and the Incentive Scheme - Halsey, Rowan, Taylor's Differential Piece Wage.

#### **UNIT III**

Elements of Cost - Overheads - Classification - Allocation - Apportionment and Absorption of Overheads - Under and Over absorption - Capacity Levels and Costs - Treatments of Certain Items in Costing like Interest on Capital - Packing expenses - Bad debts - Research and Development Expenses - Activity Based Cost Allocation.

#### **UNIT IV**

Methods of Costing - Unit costing - Job costing - Contract costing - Process costing (process losses, valuation of work in progress - Joint and by-products) - Service costing (only transport).

#### **UNIT V**

Book Keeping in Cost Accounting - Integral and Non-Integral Systems - Reconciliation of Cost and Financial Accounts

Note: - Distribution of Marks: Theory- 20% and Problems -80% respectively.

#### **SUGGESTED READINGS:**

#### **TEXT BOOKS**

1. Jain, S.P., & Narang, K.L. (2014). *Cost Accounting: Principles and Methods* (12<sup>th</sup> ed.). Ludhiana: Kalyani Publishers.

#### **REFERENCES**

- 1. Charles T. Horngren, Srikant M. Datar, & Madhav V. Rajan. (2010). *Cost Accounting, A Managerial Emphasis* (13<sup>th</sup> ed.). New Delhi: Pearson Education.
- 2. Drury, & Colin. (2012). *Management and Cost Accounting* (8<sup>th</sup> R.ed.). New Delhi: Cengage Learning.
- 3. Jawahar Lal. (2013). *Cost Accounting* (5<sup>th</sup> ed.). New Delhi: McGraw Hill Education.
- 4. Nigam, B.M. Lall., & Jain, I.C. (2009). *Cost Accounting Principles and Practice* (1<sup>st</sup> ed.). New Delhi: PHI Learning.
- 5. Rajiv Goel. (2013). Cost Accounting (1st ed.). Mumbai: International Book House.
- 6. Singh, & Surender. (2014). Cost Accounting New Delhi: Scholar Tech Press.
- 7. Arora, M.N. (2013). *Cost Accounting Principles and Practice* (12<sup>th</sup> ed.)., New Delhi: Vikas Publishing House.
- 8. Maheshwari, S.N., & Mittal, S.N. (2012). *Cost Accounting: Theory and Problems*. New Delhi: Shri Mahavir Book Depot.
- 9. Iyengar, S.P, (2005). *Cost Accounting* (10<sup>th</sup> ed.). New Delhi: Sultan Chand and Sons.
- 10. Jhamb, H.V. (2011). Fundamentals of Cost Accounting. New Delhi: Ane Books Pvt. Ltd.



## KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University Established Under Section 3 of UGC Act 1956)

Coimbatore – 641 021.

# LECTURE PLAN DEPARTMENT OF COMMERCE

STAFF NAME: Dr. B. SEETHA DEVI

SUBJECT NAME: APPLIED COST ACCOUNTING

SEMESTER: V

SUB.CODE:16PAU503A CLASS: III B.COM (PA)

#### **UNIT I**

S.No	Lecture	Topics to be Covered	Support Material
	Duration		
1	1	Cost Accounting Meaning and objectives	R1 P.12
2	1	Advantages of cost accounting	R1 P.P.10-12
3	1	Difference between Financial and Cost,	R1 P.P.8-9
		Management Accounting	
4	1	Elements of Cost and Classification of Cost	R1 P.30
5	1	Installation of costing system and Role of cost	T P.P.9.1-9.36
		Accountant in an organisation	
6	1	Preparation of cost sheet	T P.P.9.1-9.36
7	1	Comparison of production cost and cost sheet	T P.P.9.1-9.36
8	1	Problems in cost sheet	T P.P.9.1-9.36
9	1	Tender or Quotation preparation	T P.P.9.1-9.36
10	1	Problems in Tender	T P.P.9.1-9.36
11	1	Problems in Tender	T P.P.9.1-9.36
12	1	Preparation of cost sheet	T P.P.9.1-9.36
13	1	Problems in Tender	
14	1	Problems in Tender	
15	1	Recapitulation and important questions discussion	
16	1	Recapitulation of previous questions	
17	1	Recapitulation of previous questions	

# **UNIT II**

S.No	Lecture	Topics to be Covered	Support Material
	Duration		
1	1	Material inventory control technique	T. P.P.3.11-3.25
2	1	Accounting and Control of Purchases	T. P.P.3.4-3.10
3	1	Methods of Pricing Issue FIFO, LIFO	T. P.P.3.21-3.25
4	1	Simple Average and Weighted Average	T. P.P.3.21-3.25
		Method	

5	1	Replacement cost and standard cost Method	T. P.P.3.21-3.25
6	1	Treatment of Material Losses	R1P.P.161-164
7	1	Time Keeping and Time Booking	R1P.P.161-164
8	1	Concept and Treatment of Idle Time	R1P.P.161-164
9	1	Overtime, Labour Turnover and Fringe benefits	R1P.P.161-164
10	1	Methods of Wage Payment- Halsey and Rowan	R1P.P.161-164
		Plan	
11	1	Taylors differential piece wage system	R1P.P.161-164
12	1	Recapitulation and important questions	
		discussion	
13	1	Recapitulation and important questions	
		discussion	

# **UNIT III**

S. No.	Lecture	Topics to be Covered	Support Material
	Duration		
1	1	Overhead meaning and classification	R2P.P.4.1-4.59
2	1	Allocation and apportionment of Overhead	R2P.P.4.1-4.59
3	1	Absorption of Overhead	R2P.P.4.1-4.59
4	1	Under and Over absorption of Overhead	R2P.P.4.1-4.59
5	1	Capacity level and costs	R2P.P.4.1-4.59
6	1	Treatment of expenses of apportionment	R2P.P.4.1-4.59
7	1	Problems in Allocation and Apportionment of	R1P.P.2.39-2.63
		Overhead	
8	1	Primary and secondary overhead distribution R1P.P.2.39-2.63	
		summary	
9	1	Reciprocal service Method R1P.P.2.39-2.63	
10	1	Activity based cost allocation R1P.P.2.39-2.63	
11	1	Problems in overhead distribution R1P.P.2.39-2.63	
12	1	Recapitulation and important questions	
		discussion	

# **UNIT IV**

S.No	Lecture	Topics to be Covered	Support Material
	Duration		
1	1	Unit Costing and its objectives	T.P.P.9.12-9.27
2	1	Preparation of unit cost account	T.P.P.9.12-9.27
3	1	Job costing and job cost sheet	T.P.P.7.1-7.13
4	1	Accounting for completed Jobs	T.P.P.7.1-7.13
5	1	Contract costing meaning, profit determination of	T.P.P.7.15-7.35
		incomplete contract	
6	1 Problems in Contract Account		T.P.P.7.15-7.35
7	1	Process Costing Methods	T.P.P.8.1-8.66

8	1	Normal and abnormal losses treatment T.P.P.8.1-8.66	
9	1	Joint product and by product costing	T.P.P.8.1-8.66
10	1	Problems in allocation of joint cost	T.P.P.8.1-8.66
11	1	Problems in Transport costing	R.P.P.42.1-42.13
12	1	Solve problems in Transport costing	T.P.P.8.1-8.66
13	1	Solve problems in contract costing	T.P.P.8.1-8.66
14	1	Solve problems in process costing	T.P.P.8.1-8.66
15	1	Problems in Joint Product and by product costing	T.P.P.8.1-8.66
16	1	Revision- Methods of Costing	
17	1	Recapitulation and discussion of important	
		questions	

#### **UNIT V**

S.No.	Lecture	Topics to be Covered	Support Material
	Duration		
1	1	Reconciliation of Financial and Cost Accounting	T.P.P.12.1-12.36
2	1	Procedure for Reconciliation	T.P.P.12.1-12.36
3	1	Installation of Integrated Accounting System	T.P.P.12.1-12.36
4	1	Non integral Accounts, Ledger n Financial	R1O.P.349-370
		Books	
5	1	Ledger in Cost Accounting Books	R1O.P.349-370
6	1	Reason for variation and procedure of	R1O.P.349-370
		Reconciliation	
7	1	1 Problems in Reconciliation R1O.P.349-370	
8	1 Memorandum Reconciliation Account R1O.P.349-370		R1O.P.349-370
9	1	1 Integral Accounting Meaning and Advantages R1O.P.349-370	
10	1	Integral Accounting Features	R1O.P.349-370
11	1 Journal and problems R1O.P.349-370		R1O.P.349-370
12	1	Problems in integral accounting	R1O.P.349-370
13	1 Recapitulation and important questions		
		discussion	

#### **SUGGESTED READINGS**

#### **Text Book**

**Jain S.P &Narand K.L.** (2014) Cost Accounting, Principles and Methods, 12<sup>th</sup> edition, Ludhiana Kalyani Publishers.

#### References

R.S.N. Pillai & Bhavathi (2012), Cost Accounting, S Chand Publication, New Delhi.

Jawahar Lal (2013) Cost Accounting 5<sup>th</sup> ed. MC Graw Hill education, New Delhi.

Dr. P.C. Tulsian, 2012, Practical Costing, S. Chand Publication, New Delhi

Website: en.wikipedia.org/wiki/Mutual fund

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#### **TEXT BOOK**

1. Donald Hearn and M. Pauline Baker. 2007. *Computer Graphics-C Version*, Pearson Education, New Delhi, 2<sup>nd</sup> Edition.

(Page Nos. : 24-54, 56-77, 80-92, 103-118, 204-215, 236-256, 427-443, 458-463, 490-495, 502-505)

# **REFERENCES**

- 1. Amarendra N. Sinha. 2008. *Computer Graphics*, Tata McGraw Hill, New Delhi, 1<sup>st</sup> Edition.
- 2. Foley, Vandam, Feiner and Hughes. 1999. *Computer Graphics Principles and Practices*, Addison Wesley, Singapore, 2<sup>nd</sup> Edition.

- 3. Evangeline, D., Anita, S. 2016. Computer Graphics And Multimedia Insights, Mathematical Models And Programming Paradigms. PHI Learning Pvt. Ltd.,
- 4. Rae Earnshaw.2014. *Computer Graphics: Developments in Virtual Environments*, academic Press, New Delhi, 2<sup>nd</sup> Edition.

# **WEBSITES**

W1: www.openlearning.intercol.edu/Computer graphics

W2: <a href="http://www.cgtutorials.com">http://www.cgtutorials.com</a>

W3: <a href="https://www.touchsystems.com/opticaltouch">https://www.touchsystems.com/opticaltouch</a>

Class: III B.COM PA

Course Name: Applied Cost Accounting

Course Code: 16PAU503A Unit 1 Semester: V Year: 2016-19 Batch

Introduction: Meaning – objectives and Advantages of Cost Accounting – Difference between Cost Accounting and Management, Financial Accounting – Cost Concepts and classifications – Elements of Cost – Installation of a costing system- Role of a cost Accountant in an organization – Preparation of Cost Sheet.

## **Cost Accounting**

#### Meaning

Cost Accounting is the technique and process of ascertainment of costs, cost accounting is the process of accounting for costs, which begins with recording of expenses or the bases on which they are calculated and ends with preparation of statistical data. The IMCA defines "The process of accounting for cost from the pint at which expenditure is incurred or committed to the establishment of its ultimate relationship with cost centers and cost units. In its widest usage it embraces the preparation of statistical data, the application of cost control methods and the ascertainment of the profitability of activities carried out or planned"

# **Objectives of Cost Accounting**

#### 1. Ascertainment of Cost

It enables the management to ascertain the cost product, job, contract, service or unit of production so as to develop cost standard. Cost may be ascertained, under different circumstances, using one or more types of costing principles like standard costing, marginal costing etc.

#### 2. Fixation of selling price

Cost data are useful in the determination of selling price or quotations. A part from cost ascertainment, the cost account analyses the total cost into fixed and variable costs. This will help the management to fix the selling price; sometimes, bellow the total cost but above the variable cost. This will increase the value of sales-more sales than previously, thus leading to maximum profit. The scientific way to reducing the prices is possible in an industry only where a sound costing system exists. In other words the cost reduction, in the absence of a costing system, may cause to shut down the industries.

#### 3. Cost Control

The object is to minimize the cost of manufacturing comparison of actual cost with standards reveals the discrepancies variances.

#### 4. Matching cost with revenue

The determination of profitability of each product, process, departments etc. is the important object of costing.

#### 5. Special cost studies and investigations

It undertakes special cost studies and investigations and these are the basis for the management in decision making or polices. This will also include pricing of new products, contraction or expansion programmes, closing down or continuing a department, product mix, price reduction in depression etc.

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#### **Advantages of Cost Accounting:**

The deficiencies of financial accounting the cost account is developed and it offers a number of advantages to the management and the following are the main advantages

#### To the Management

#### 1. Action against unprofitable activities

It reveals unprofitable activities, inefficiencies such as wastage of materials spoilage, leakage, pilferage, scrap etc. and wastage of resources inadequate utilization etc. the management is able to concentrate on profitable jobs and consider change or closure of the unprofitable jobs.

#### 2. Facilitates decision making

It provides necessary data along with information to the management to take decision on any matter, relating to the business

#### 3. Assistant in fixing prices

The various types of cost accounting are much helpful in fixing the cost and selling price of a product. Thus the desired volume of production is secured at the minimum possible cost.

# 4. Improves efficiency

Through the standard cost and budgetary control, remedial action can be chosen in order to improve the efficiency and supplement new principles.

#### 5. Facilitates cost control

It facilitates cost control possible by comparison.

#### 6. Establishes standard cost

It enables the management to find out the cost of each job and to know what it should have cost.it indicates where the losses ad wastes occur before the work is finished, standard cost is a pre determined cost and offers a number of advantages to management.

#### To the employees

#### 1. Sound wage policy

Cost accounting introduces incentive wage scheme, bonus plan etc. which bring better reward to sincere and efficient workers.

#### 2. Higher bonus plans

Cost accounting leads to an increase in productivity, lowering of costs and increase in profitability. Workers get then share in profits in the form of bonus.

#### 3. Distinction between efficient and inefficient workers.

Cost accounting provides standards for the measurement of efficiency of workers. Efficient workers can be distinguished and their efficiency recognized and rewarded.

#### 4. Security of job

Employees get better remuneration, security of job etc. due to the increasing prosperity of the industries. Monetary appreciation of the efficiency of a worker is a good tonic which leads to higher rate of productivity.

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#### To the creditors

Bankers, creditors, investors etc. can have a better understanding of the firm, as regards the progress and prosperity, before they offer financial landings.

#### To the Government

- 1. The proper systems of cost accounting are of great use in the preparation of national plans, economic developments etc.
- 2. By studying the trend of cost, the government can make policies like taxation, import, export, price ceiling, granting subsidy etc.
- 3. Costing system has stability and cost reduction in industries. Cost audit is important and industries have to keep books of accounts to show the utilization of materials, labour and other costs.

# **Cost Accounting Vs Financial Accounting**

Financial Accounting	Cost Accounting
1. Transactions are recorded for a definite	Transactions are identified with cost units
period	
2. It covers transactions of the whole firm	It aims to guide the management for proper
pertaining to business	planning, control and decision making
3. It is prepared to show the final results	It aims to guide the management for proper
during a particular period to owners,	planning, control and decision making.
outsiders etc.	
4. It analyses the expenditure under	It analyses the expenditure under different
different types of expenses	heads of performance as distinct from types of
	expenses
5. The overall results of the business can	It reveal the profitability and unprofitability of
be revealed by profit and loss account.	each department.
6. It does not tell us the inefficiencies of	It provides a system of good inventory control
material handling, as the figures are	through a prescribed procedure for purchase
available in aggregate.	storage, issue etc.
7. It makes no distinction between	It makes clear distinction between controllable
controllable and uncontrollable or fixed	and uncontrollable
and variable	

#### **Cost Accounting Vs. Management Accounting**

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Cost Accounting	Management Accounting
1. The cost accountant is primarily	The management accountant is concerned with
concerned with the ascertainment of	all such matters in a wider perspective which
cost and profitability and with the	go to assist the management in the formulation
control of costs through budgetary	of policies, improvement of productivity,
control, standard costing etc.	profitability etc.
2. Cost accounting evolved out of	Management accounting evolved out of cost
financial accounting	accounting
3. Cost accountant suggests to the	Management accountant takes into
management the best of the alternatives	consideration the other non cost factors also
by use of differential cost method	while deciding upon alternatives.
4. Cost accounting provides just cost	Management accounting provides all
information for managerial purpose.	accounting information. It utilizes the
	principles and practice of cost accounting and
	financial accounting in the best interests of the
	business.

#### Classification of costs

Classification of cost means, the grouping of costs according to their common characteristics. The important ways of classification of costs are:

- 1. By Nature or Traceability: Direct Costs and indirect cost. Direct Costs are Directly attributable/traceable to cost object. Direct costs are assigned to Cost Object. Indirect Costs are not directly attributable/traceable to Cost Object. Indirect costs are allocated or apportioned to cost objects.
- 2. By Functions: production, administration, selling and distribution, R&D.
- 3. By Behavior: fixed, variable, semi-variable. Costs are classified according to their behavior in relation to change in relation to production volume within given period of time. Fixed Costs remain fixed irrespective of changes in the production volume in given period of time. Variable costs change according to volume of production. Semi-variable costs are partly fixed and partly variable.
- 4. By control ability: controllable, uncontrollable costs. Controllable costs are those which can be controlled or influenced by a conscious management action. Uncontrollable costs cannot be controlled or influenced by a conscious management action.
- 5. By normality: normal costs and abnormal costs. Normal costs arise during routine day-to-day business operations. Abnormal costs arise because of any abnormal activity or event not part of routine business operations. E.g. costs arising of floods, riots, accidents etc.

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6. By Time: Historical Cost and predetermined costs. Historical costs are costs incurred in the past. Predetermined costs are computed in advance on basis of factors affecting cost elements. Example: Standard Costs.

- 7. By Decision making Costs: These costs are used for managerial decision making. And these are :-
- Marginal cost: Marginal cost is the change in the aggregate costs due to change in the volume of output by one unit.
- Differential costs: This cost is the difference in total cost that will arise from the selection of one alternative to the other.
- Opportunity costs: It is the value of benefit sacrificed in favor of an alternative course of action.
- Relevant cost: The relevant cost is a cost which is relevant in various decisions of management.
- Replacement cost: This cost is the cost at which existing items of material or fixed assets can be replaced. Thus this is the cost of replacing existing assets at present or at a future date.
- Shutdown cost: These costs are the costs which are incurred if the operations are shut down and they will disappear if the operations are continued.
- Capacity cost: These costs are normally fixed costs. The cost incurred by a company for providing production, administration and selling and distribution capabilities in order to perform various functions.
- Sunken cost: cost already incurred
- Other costs

#### **Elements of cost accounting**

Basic cost elements are:

- Material
  - Direct material
  - o Indirect material
- Labor

Direct labor

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o Indirect labor

#### Overhead

- Production or works overhead including factory staff
- Administration overhead including office staff
- Sales overhead including production and maintenance of cataloges, advertising (development and purchases), exhibitions, sales staff, cost of money
- Distribution overhead
- o Maintenance and repair including office equipment and factory machinery
- Supplies
- o Utilities including gas, electric, water, sewer, and municipal assessments
- o Other variable expenses
- Salaries/payroll including wages, pensions, and paycheck deductions (e.g., NI and PAYE in the UK, FICA in the US)
- Occupacy (rent, mortgage, property taxes)
- Depreciation (durable goods including machinery and office equipment)
- Other fixed expenses

These categories are flexible and sometimes overlapping. For example, in some companies, machine cost is segregated from overhead and reported as a separate element altogether, and payroll costs are sometimes separated form other production costs.

Installation of a Costing System

It is different to prepare a uniform method of costing applicable to each and every kind of industry. The basic principles are fairly definite, but practical application varies from industry to industry because of the nature of industries. The installation of a costing system requires careful consideration of the following aspects

- 1. Objectives of costing system
- 2. Product and the business
- 3. The organization
- 4. Technical aspects
- 5. Standardization
- 6. Communication

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- 7. Accounting system
- 8. Elasticity and economy
- 9. Regularity
- 10. Cost records

#### **Cost Sheet**

All expenses relating to product are extracted from financial accounts and analysed under expense heads in the form of statement. This tabulated statement is called cost sheet.

# Preparation of cost sheet

- \*. It gives the break up figures of the to tall cost under different elements.
- \* it gives total cost as well as cost per unit.
- \* it facilitates comparisons.
- \* It helps in the preparation of cost estimates.
- \* it helps in fixing the selling price.
- \* It facilitates cost control by disclosing the inefficiencies by comparing with the previous years figures.

#### Cost Sheet of ----- for the Month of July 2018

Particulars		Total cost	Cost per unit
Opening Stock of Raw Material			
Add: Purchases			
Less : Closing stock			
Raw Material Consumed		****	
Direct Labour		****	
Direct Expenses		****	
	Prime Cost	****	
Add: Factory cost		****	
Add; Opening work in progress		****	
Less: closing work in progress		****	
	Work cost	****	
Add: Office and Administration Cost		***	
	Office Cost	***	
Add: Opening stock of Finished good		***	
Less: Closing stock of Finished Goods		***	
	Cost of	***	
Production		***	
Add : Selling and distribution cost		***	

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#### Possible Questions;

- 1. What is cost Accounting? What are its objectives?
- 2. What are the advantages of cost accounting?
- 3. What is tender?
- 4. Describe briefly the different methods of costing, and state the particular industries to which they can be specified.
- 5. Define (a) Direct expenditure (b) Indirect expenditure
- 6. Define Unit costing? Mention two enterprises that use unit costing
- 7. What do you mean by elements of cost? Explain
- 8. Compare the cost accounting with financial accounting
- 9. What are the difference between cost accounting and management accounting?
- 10. What are the types of costing?

# **APPLIED COST ACCOUNTING (16PAU503A)**

QUESTION	OPTION1	OPTION2	OPTION3	OPTION4	ANSWER
UNIT - I	0. 1.0	OI HOILE	OI HORO	OI HOIV	7
Cost accounting has					
become an essential	Accounts	Managem	Purchase	Sales	Manageme
tool of	Accounts	ent	Turchase	Saics	nt
Cost accounting		CIIt			
facilitates cost			Cost		Cost
Reduction and	Cost	Contol	Control	Overheads	Control
Direct Cost are known	Cost	Prime	Cost of	Overneaus	Prime
			Production	Cost of Solos	Cost
as	Work Cost	Cost	Production	Cost of Sales	Cost
Factory Cost=	Direct Material	Factory cost+ administr ative Over head	Cost of production+ selling and distributive over head	prime cost+ factory over head	Factory cost+ administra tive Over head
Cost which can be minimized by the executive action are known ascost	Controllable	Un controllab le	Fixed Cost	Variable Cost	Controllab le
Cost which cannot be minimized by the executive action are known ascost	Controllable	Un controllab	Fixed Cost	Variable Cost	Un controllabl e
cost are those cost which are incurred to maintain the earning capacity of the business		Revenue	Fixed Cost	Variable Cost	Capital
Cost which are ascertained after they have been incurred are known ascost		Historical Cost	Marginal Cost	Differential Cost	Historical Cost
_cost are those cost which can be allowed by discontinuation of a product		Avoidable Cost	Capital Cost	Revenue Cost	Avoidable Cost

Cost					
which continue to					
occur even if there is				Revenue Cost	
	Unavoidable	A voidable		Revenue Cost	Unavoidab
temporary stoppage of			Camital Cant		
production activities	cost	Cost	Capital Cost		le cost
is also					
called as specific order		process		contract	
costing	job costing	costing	unit costing	costing	job costing
i					
s also known as		process		contract	contract
terminal costing	job costing	costing	unit costing	costing	costing
is					
also called as		process		contract	process
continuous costing	job costing	costing	unit costing	costing	costing
is					
refered as single or		process		contract	unit
output costing	job costing	costing	unit costing	costing	costing
are those					
cost which are not					
directly associated with		product			capital
the product	capital cost	cost	period cost	revenue cost	cost
are those			p cris as cost		
cost which are incurred					
in purchasing some		product			capital
asset	capital cost	cost	period cost	revenue cost	cost
cost refers to	capital cost	COST	period cost	revenue cost	cost
converting of row					
_		mma dayat			conversion
material into partly finished books	conversion	product			
	cost	cost	period cost	revenue cost	cost
cost which is					
incurred a given level	,		~ 1		
of output	normal	abnormal	fixed	variable	normal
cost are those					
cost which are incurred					
to maintain the earning		product			capital
capacity of business	capital cost	cost	period cost	revenue cost	cost
is followed					
by industries which	batch	process		operating	operating
render services	costing	costing	unit costing	costing	costing
costing refers					
to same costing	historcial	direct	indirect	uniform	uniform
principles and methods	costing	costing	costing	costing	costing
is also		-			
known as composite	historcial	direct	indirect	multiple	multiple
costing	costing	costing	costing	costing	costing
	U	ی		<i>U</i>	ð

production cost centre service sales production marketing production Expenses may be direct indirect both only in direct direct adminstrativ office e selling overhead overhead ive  Expenses incurred with the packing and delivery of goods spartly fixed and partly variable fixed variable e semivariabl the volume of output fixed variable e semivariabl the volume of output fixed variable e semivariabl the level of output fixed variable e semivariabl the level of output fixed variable e partly fixed letters on the avoided by discontinuation of a product department avoidable le variable fixed variable e semivariabl the cost in respect of a ascertainme saccertainme ascertainme    Direct costing is the						
as estimated cost ed cost costing costing costing ined cost cost accounting involves————of cost data to the managemenr summarising analysing reporting recording reporting.  The costing system should provide for periodic———of cost accounts and financial accounts and financial accounts summarising analysing n recording ion  operating costing is adopted by ——— profit industries like transport making industry public private industry  A cost centre in which—— is carried on as production cost acentre in which—— is carried on as production cost centre in which enforce e service sales production marketing production fixed industriativ elements overhead overhead ive  Expenses incurred with the packing and delivery of goods  —————of six partly fixed and partly variable  ————remains fixed respective of the level of output fixed variable e semivariabl reconstruction of a product department avoidable avariable fixed variable fixed variable fixed avoidable avariable fixed account accounts in the cost of fixed contract batch process unit process  Direct costing is the—————of direct costing is known as contract batch process    Cost in respect of a   cost arc those cost which can be avoidable   costing is known as contract batch process unit process	is referred	nredetermin	historcial	direct	indirect	nredeterm
cost accounting involves		*				
involves		ou cost	costing	Costing	costing	11104 0050
data to the managemenr summarising analysing reporting recording reporting The costing system should provide for periodic——— of cost accounts and financial accounts summarising analysing reconciliation recording in reconciliation reconciliation recording in reconciliation reconciliation recording in reconciliation reconciliation recording in reconciliation reconciliation reconciliation reconciliation recording in reconciliation reconciliation reconciliation reconciliation reconciliation reconding in reconciliation recon						
managemenr summarising analysing reporting recording reporting The costing system should provide for periodic						
The costing system should provide for periodic———of cost accounts and financial accounts summarising analysing n reconciliatio noperating costing is adopted by———profit industries like transport making industry public private industry  A cost centre in which——is carried on as production cost centre service sales production cost centre Expenses may be direct indirect both only in direct both incurred for running the adminstrative office calculated by adminstrative office calculated by a cost is partly fixed and partly variable calculated by a cost are those cost which can be avoided by discontinuation of a product department cost in respect of a direct cost in respect of a secrtainme cost are those cost in respect of a secrtainme cost are cost in respect of a secretainme cost are cost are cost in respect of a secretainme cost are cost are cost in respect of a secretainme cost are cost are cost in respect of a secretainme cost are cost are cost in respect of a secretainme cost are		summarising	analysing	reporting	recording	reporting
should provide for periodic——— of cost accounts and financial accounts summarising analysing n reconciliation provided by ———————————————————————————————————		<i></i>	uniun ja mag	ropering	10001001115	- cpg
periodic						
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A cost centre in which is carried on as production cost centre Expenses may be direct indirect both only in direct both incurred for running the adminstrative adminstrative expenses incurred with the packing and delivery of goods cost is partly fixed and partly variable cost incurred with the volume of output remains fixed irrespective of the level of output cost are those cost which can be avoided by discontinuation of a product department expenses of the cost in respect of a direct overhead ove	-	*		public	private	
is carried on as production cost centre		in i	111000511	position	Pirious	literas er y
production cost centre service sales production marketing both only in direct direct adminstrativ event both only in direct both only in direct solution. The process is partly fixed with the packing and delivery of goods selling overhead overhead overhead overhead selling overhead overhead selling.  Cost is partly fixed and partly variable fixed variable semivariabl the volume of output fixed variable semivariabl e semivariabl the level of output fixed variable e partly fixed le semivariabl the level of output fixed variable e partly fixed le semivariabl e partly fixed le semivariable e partly	is carried on as					
Expenses may be direct indirect both only in direct both incurred for running the adminstrative office		service	sales	production	marketing	production
incurred for running the adminstrative office	<u>*</u>			1		^
the adminstrative office e selling work overhead overhead ive  Expenses incurred with the packing and delivery of goods e e selling overhead overhead overhead selling  Cost is partly fixed and partly variable fixed variable e semivariabl the volume of output fixed variable e semivariabl the level of output fixed variable e work overhead overhead semivariable e semivariabl the level of output fixed variable e wariable e partly fixed le  Cost are those cost which can be avoided by discontinuation of a product department expected avoidable le wariable e wariable e wariable e wariable e wariable e partly fixed avoidable e wariable fixed avoidable e wariable fixed avoidable e wariable e wariable fixed avoidable e wariable fixed avoidable e wariable e wariable fixed avoidable e wariable	-					
Expenses incurred with the packing and delivery of goods e selling overhead overhead overhead overhead overhead selling overhead overhead overhead selling overhead overhead overhead overhead overhead overhead overhead selling overhead o	· ·	adminstrativ		work	direct	adminstrat
Expenses incurred with the packing and delivery of goods e selling overhead overhead selling  Cost is partly fixed and partly variable fixed variable e semivariabl the volume of output remains fixed irrespective of the level of output cost are those cost which can be avoided by discontinuation of a product department avoidable e semivariable e variable fixed variable e partly fixed avoidable e variable fixed variable fixed variable fixed variable e partly fixed le partly fixed avoidable fixed variable fixed variable fixed variable fixed avoidable e variable fixed avoidable fixed avoi			selling			
incurred with the packing and delivery of goods e selling overhead overhead overhead selling			8			
packing and delivery of goods e selling work overhead overhead selling Cost is partly fixed and partly variable fixed wariable e semivariabl the volume of output fixed wariable e semivariabl the volume of output fixed wariable e semivariabl the level of output fixed wariable e partly fixed le cost are those cost which can be avoided by discontinuation of a product department avoidable le wariable fixed avoidable Extension of job costing is known as contract batch process unit process  Direct costing is the						
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the volume of output fixed variable e avarge variable						
remains fixed irrespective of the level of output cost are those cost which can be avoided by discontinuation of a product department  Extension of job costing is known as Direct costing is the of direct cost in respect of a  semivariabl partly fixed  partly fixed  partly fixed  avoidable  semivariab partly fixed  avoidable  avoidable  avoidable  avoidable  ascertainme	varies with			semivariabl		
remains fixed irrespective of the level of output	the volume of output	fixed	variable	e	avarge	variable
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the level of output fixed variable e partly fixed le cost are those cost which can be avoided by discontinuation of a product department avoidable le variable fixed avoidable  Extension of job costing is known as contract batch process unit process  Direct costing is the of direct cost in respect of a ascertainme ascertainme	fixed irrespective of			semivariabl		semivariab
cost are those cost which can be avoided by discontinuation of a product department avoidable le variable fixed avoidable Extension of job costing is known as contract batch process unit process  Direct costing is the	_	fixed	variable	e	partly fixed	le
those cost which can be avoided by discontinuation of a product department avoidable le variable fixed avoidable  Extension of job costing is known as contract batch process unit process  Direct costing is the of direct cost in respect of a ascertainme ascertainme					•	
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product department avoidable le variable fixed avoidable  Extension of job costing is known as contract batch process unit process  Direct costing is the of direct cost in respect of a ascertainme ascertainme			unavoidab			
Extension of job costing is known as contract batch process unit process  Direct costing is the of direct cost in respect of a ascertainme ascertainme	product department	avoidable		variable	fixed	avoidable
costing is known as contract batch process unit process  Direct costing is the of direct cost in respect of a ascertainme ascertainme						
Direct costing is the of direct cost in respect of a ascertainme ascertainm		contract	batch	process	unit	process
of direct cost in respect of a ascertainme ascertainme						
<u> </u>	_					
*	cost in respect of a	ascertainme				ascertainm
1 1 7 1 1 1	product	nt	analysing	reporting	recording	ent

	I	1	1	Γ	
cost is	1	standard	· · · · · · · · · · · · · · · · · · ·		standard
a predetermined cost	direct cost	cost	uniform cost	marginal cost	cost
are those					
cost which are not		1 .			
directly associated with		product			capital
the product	capital cost	cost	period cost	revenue cost	cost
are those					
cost which are incurred					
in purchasing some		product			capital
asset	capital cost	cost	period cost	revenue cost	cost
cost refers to					
converting of row					
material into partly	conversion	product			conversion
finished books	cost	cost	period cost	revenue cost	cost
cost which is					
incurred a given level					
of output	normal	abnormal	fixed	variable	normal
1					
cost are those					
cost which are incurred					
to maintain the earning		product			capital
capacity of business	capital cost	cost	period cost	revenue cost	cost
is followed	capital cost	COSt	period cost	revenue cost	Cost
by industries which	batch	process		operating	operating
render services	costing	^	unit costing	costing	costing
	costing	costing	unit costing	costing	costing
costing refers	1. 1. 4 1 . 1	1:4	. 1	······	<b>:</b> £
to same costing	historcial	direct	indirect	uniform	uniform
principles and methods	costing	costing	costing	costing	costing
is also	1	1.		1.1.1	
known as composite	historcial	direct	indirect	multiple	multiple
costing	costing	costing	costing	costing	costing
The costing system					
should provide for					
periodic of					
cost accounts and			reconciliatio		reconciliat
financial accounts	summarising	analysing	n	recording	ion
operating costing is					
adopted by	profit	service			service
industries like transport	making	industry	public	private	industry
A cost centre in which -		,			
is carried on as					
production cost centre	service	sales	production	marketing	production
Expenses may be	direct	indirect	both	only in direct	both
incurred for running				<i>y</i> : 00	
the adminstrative	adminstrativ		work	direct	adminstrat
office	e	selling	overhead	overhead	ive
011100	<u>ı~</u>	Jennig	o vermeau	o verneau	1.10

	ī	ı	ı	T	1
Expenses					
incurred with the					
packing and delivery of	adminstrativ		work	direct	
goods	e	selling	overhead	overhead	selling
Cost is					
partly fixed and partly			semivariabl	Keep on	semivariab
variable	fixed	variable	e	changing	le
varies with			semivariabl		
the volume of output	fixed	variable	e	avarge	variable
cost are those cost				,	
which can be allowed				revenue cost	
by discontinuation of a	unavoidable	avoidable			avoidable
product	cost	cost	capital cost		cost
Cost			1		
which continue to					
occur even if there is				revenue cost	
temporary stoppage of	unavoidable	avoidable			unavoidab
production activities	cost	cost	capital cost		le cost
is also	0050	0000	capital cost		10 0050
called as specific order		process		contract	
costing	job costing	costing	unit costing	costing	job costing
i	Joo costing	costing	unit costing	costing	Job costing
s also known as		process		contract	contract
terminal costing	job costing	costing	unit costing	costing	costing
is	job costing	costing	unit costing	costing	costing
also called as		process		contract	process
continuous costing	job costing	costing	unit costing	costing	costing
· · · · · · · · · · · · · · · · · · ·	Job costing	costing	unit costing	costing	costing
refered as single or		process		contract	unit
	ich costina	process	unit costino		
output costing are those	job costing	costing	unit costing	costing	costing
cost which are not					aanital
directly associated with		product	1		capital
the product	capital cost	cost	period cost	revenue cost	cost

QUESTION	OPTION1
UNIT - II	
cost is one of the most important elements	
of the cost of production	Labour
Inventory means	Stock
BIN card is maintained by	Storekeeper
EOQ =	√AO/C
level below which stock level should not be allowed	
to fall at any time	Minimum
Madak mila mada di salar allada a	Standard price
Market price method is also called as method	Method
scarp is arises due to bad workmanship	legimate scrap
Spoilage is uncontrollable or unavoidable	Normal
card is attached to each bin	Material control
Document which records transfer of	
surplus from one job to another	Material control
ensures effective utilisation of material	control
avoids over investment in inventories	control
ensures upto date maintance of stock records	control
taking is an essential future of the prepetual	
inventory system	bin card
storce ledger is kept in the department	production
	always better
ABC means	control
under method a standard are fixed price is used for	
pricing issues	actual
scrap refers to	damage
refers to a units of output which failed to reach the	
require standard of quality or specification	scrap
is the portion of raw material lost in processing	
having no recovery value	scrap
gives the complete list of materials required	
for a particular job or work order	job costing
is attached to each bin to show the position	-
of stock in the bin	bin card
	perputal
is known as atomatic inventory system	inventory
An system of material control will lead to a	
significant reduction in total cost of production	Poor
helps to prevent over stocking of materials	Material control
prevents loss during storage of raw materials	Material control
Inventory means	Stock
card helps the store keeper to control the stock	Material control

Dry gooing the the standroomen con and the	
By seeing the the storekeeper can send the	M-41
material requstion for purchase of material in time	Material control
contains the accounts for each class of material	Material control
is maintained in loose leaf form	Material control
A gives a complete list of materials	Widterial control
required for a particular job or work order	Material control
serve as a purchase requsition to the	Waterial Control
	Material control
purchase department	Material control
Method in which materials are issued	PIEO
inorderin which they are received in the store	FIFO
metjod materials received last are	
issued first	FIFO
	Base stock
The minimum quanity is known as	method
method is determined by adding different prices	Base stock
of materials in stock	method
method takes into account both quanity and	Base stock
price for arriving at the average price	method
	Base stock
method is also called replacement method	method
method a stsndard or a fixed price is used	Standard price
for pricingf the issues	Method
Anything which has no value is considered to be	
	wastage
may be normal or abnormal	wastage
is sold without further treatement are used as	ge
raw material for another process	wastage
is a document which authorises and records	Material
the issues of materials for use	Requstion Note
Goods received note is prepared by the department receiving	requisitori Note
	Cymalion
the goods from the	Supplier
scrap refers to	damage
level below which stock level should not be	
allowed to fall at any time	Minimum
Market price method is also called as method	Standard price
scarp is arises due to bad workmanship	Method
	legimate scrap Normal
Spoilage is uncontrollable or unavoidable	
card is attached to each bin	Material control
Document which records transfer of surplus from one job to another	Material control
ensures effective utilisation of material	control
avoids over investment in inventories	control
	control
ensures upto date maintance of stock records	COHHOI

taking is an essential future of the prepetual			
inventory system	bin card		
storce ledger is kept in the department	production		
	always better		
ABC means	control		
under method a standard are fixed price is used for			
pricing issues	actual		
storce ledger is kept in the department	production		

ION2 OP	ON3 OPTION4
	Adminstrative
Selling Ove	haead Overhead
Stores	Sales
Auditor	Supervisor
√2AO/C	$\sqrt{2}$ CA/C
Re- Order	vel Average
	Base stock
thod Average M	thod Method
scarp Defective S	
Defective	Average
note BIN card	Stores ledger
note BIN card	Stores ledger
material co	
material co	$\varepsilon$
material co	S
	Material transfer
continuous	tock taking note
stores	costing
analysis of	est cost always best cost
	, i
standard	costing
reused	valueless
wastage	damage
wastage	damage
unit costing	contract costing
	stock transfer
bill of mate	al note
	stock transfer
bill of mate	al note
Efficient	good
note BIN card	Stores ledger
note BIN card	
Cost	Sales
note BIN card	Stores ledger
Efficient note BIN card note BIN card Cost	good Stores ledger Stores ledger

material transfer note	BIN card	Stores ledger
material transfer note	BIN card	Stores ledger
material transfer note	BIN card	Stores ledger
material transfer note	BIN card	Bill of material
material transfer note	BIN card	Bill of material
LIFO	FFFO	LFIO
LIFO	FFFO	LFIO
Simple Avarage Method	weighted avearge method	Market price method
Simple Avarage Method	weighted avearge method	Market price method
Simple Avarage Method	weighted avearge method	Market price method
Simple Avarage Method	weighted avearge method	Market price method
Simple Avarage Method	weighted avearge method	Market price method
Scarp	Spoliage	materials
Scarp	Spoliage	materials
Scarp	Spoliage	materials
material transfer note	BIN card	Bill of material
Customer	Producer	Distributor
wastage	reused	valueless
maximum	reorder level	zero level
Replcement method	Average Method	Base stock Method
Administrative scarp	Defective Scarp	Average Stock
Abnormal	Defective	Average
material transfer note	BIN card	Stores ledger
material transfer note	BIN card	Stores ledger
usage	material control	wastage
usage	material control	wastage
usage	material control	wastege

		Material transfer
stores ledger	continuous stock takir	ng note
sales	stores	costing
always best cost	analysis of best cost	always best cost
fixed	standard	costing
sales	stores	costing

#### **ANSWER**

ANSWER
Material
Stock
Store keeper
√2 <b>AO</b> /C
Minimum
Base stock Method
legimate scrap
Normal
BIN Card
material transfer note
material control
material control
material control
material control
continuous stock taking
costing
always better control
actual
damage
spoilage
spoilage
sponage
ich costing
job costing
bin card
perputal inventory
· ·
Efficient
Material Control
Material Control
Stock
BIN Card
L

BIN Card
Stores Ledger
Stores Ledger
Bill of material
Bill of material
FIFO
LIFO
Base stock method
Simple Avarage Method
weighted avearge method
Market price method
Standard price Method
wastage
wastage
Scarp
Material Requstion Note
Supplier
damage
minimum
Base stock Method
legimate scrap
Normal BIN Card
DIT Caru
material transfer note
material control material control
material control
material Cultiul

continuous stock taking	
costing	
always better control	
actual	
costing	

QUESTION		
UNIT - III		
overhead means		
classification of overhead is important inorder to identify cost with		
centre		
materials are those materials which do not form a part of the		
finished goods		
of indirect materials cannot be identified with and allocated		
but can be apportioned to apportioned to a particular product		
labours which is not directly engaged in production of goods		
or services		
the wages paid for indirect labour is known as		
labours helps the direct labour engaged in production		
expenses tht are not directly charged to production		
factory expenses is also known as		
overhead covers all expenses incurred from stage to raw		
materials to finished goods		
expenses incurred for running the adminstrative office		
expenses incurred for actual sales and promotion of sales		
expenses incurred for with packing and delivery of goods to		
customers		
don not vary with the volume of products		
are partly fixed and partly variable		
oveheads refers to such overhead which are expected to be		
incurred in attaining a given output		
oveheads refers to such overhead which are not expected to		
be incurred in attaining a given output		
cost are variable cost which can be controlled		
cost are fixed cost which cannot be controlled		
materials are those materials which do not form a part of the		
finished goods		
is the process of grouping of cost according to their common		
characterstics		
is defined as the allotment of whole amount of cost centre or		
cost units		
is defined as the alloment proportions of cost to cost centre		
or cost units		
means allotment of overheads to jobs		
Expenses which can be directly identified with a particular department or		
cost centre is called		
allocation and apportionment of overheads expenses to various production		
and service department is known as		
department are those department which enable other		
department tp work		

ensures accuracy in cost ascertainment		
facilitates work and supervision		
esssential for budgetary control		
is obtained by dividing the amount of overheads by direct		
material cost		
is obtained by dividing the amount of overheads by the direct		
wages		
is obtained by dividing the amount of overhead by the prime		
cost		
is obtained by dividing the amount of overheads by the		
labour hours		
is obtained by dividing the amount of overheads by the		
macchine hours		
Overheads in cost accounts are usually the basis of		
report help the management in decision making		
method helps to compare the efficiencies and cost of		
operating different machines		
Under absorption means that the overheads absorbed in production less than		
the overhead		
absorbtion means that the overhead absorbed in production		
are more than that of actual overhead		
rate is the cost of running a machine per hour		
Each machine or group of machine is treated as a cost centre in order to		
identify the expenses		
Standing charge is also known as		
Machine expenses is also known as		
State the bases od Apportionment for rent		
State the bases of apportionment for lighting		
State the bases for apportionment of depriciation of plant and macinery		
State the bases of apportionment for insurance of stock		
State the bases of apportionment for material handling charges		
State the bases of apportionment of supervision		
State the bases of apportionment of repairs to plant		
Each machine or group of machine is treated as a cost centre in order to		
identify the expenses		
Canteen expenses is apportionmet based on		
State the bases for apportionment of indirect materials		
State the bases for apportionment of indirect materials  State the bases for apportionment of indirect wages		
State the bases for apportionment of municipal taxes		
State the bases for advertising		
is the process of distribution of overheads to various		
departments		
method depends upon the type and size of the business		
is process of charging the full amount of overhead without		
division		

OPTION1	OPTION2
01 110N1	OI HONZ
Indirect expenses	Direct expenses
-	
Process	sales
direct	indirect
cost	expenses
Direct	indirect
direct	indirect
direct	indirect
Indirect expenses	Direct expenses
production overhead	manufacturing overhead
production overhead	factory overhead
adminstaration overhead	factory overhead
administration overhead	factory overhead
administration overhead	factory overhead
Fixed overhead	variable overhead
Fixed overhead	variable overhead
Normal	Abnormal
direct	indirect
Cost Classification	Cost Allocation
Departmentalisation	Cost Allocation
Service	Production

Departmentalisation	Cost Allocation
-	Cost Allocation  Cost Allocation
Departmentalisation Departmentalisation	
Departmentalisation	Cost Allocation
Direct material cost percentage	direct labour cost percentage
Diment motorial cost monocontosa	dinest lehevyn eest meneentees
Direct material cost percentage	direct labour cost percentage
Direct material cost percentage	direct labour cost percentage
Direct material cost percentage	direct labour cost percentage
Direct material cost percentage	direct labour cost percentage
Estimate Rates	Fixed rates
Audit	cost
Direct material cost percentage	direct labour cost percentage
Actual	work
under	Over
Labour per hour	Machine Hour
Fixed overhead	Direct overhead
Fixed overhead	Direct overhead
Variable expenses	Fixed Expenses
Floor area	value of plant
Light points	value of plant
No.of, Employees	value of plant
No.of, Employees	value of plant
Fixed overhead	Direct overhead
No.of, Employees	value of plant
Direct Materials	value of plant
Direct Materials	Direct wages
Floor area	value of plant
Actual Expenses	value of plant
Cost Classification	Cost Allocation
Cost Classification	Cost Allocation
Cost Classification	Cost Allocation

OPTION3	OPTION4	
W/1	F. 4	
Work expenses	Fcatory expenses	
Cost	production	
Raw material	cost of material	
labour	sales	
semi- skilled	Skilled	
bonus	penalty	
bonus	penalty	
overhead expenses	selling expenses	
selling overhead	distribution overhead	
11'	distribution overhead	
selling overhead selling overhead	semivariable overhead	
	semivariable overhead	
selling overhead	semivariable overnead	
Controllable	Un controllable	
Raw material	cost of material	
Cost Apportionment	Cost absorption	
Sales	Purchase	

Cost Apportionment	Cost absorption		
Cost Apportionment	Cost absorption		
Cost Apportionment	Cost absorption  Cost absorption		
	ecst description		
prime cost percentage	work cost percentage		
prime cost percentage	work cost percentage		
prime cost percentage	work cost percentage		
primit control percentage	wern test percentage		
prime cost percentage	work cost percentage		
prime cost percentage	work cost percentage		
prime cost percentage	Direct labour hour percentage		
prime cost percentage	Breet moon near percentage		
machine Hour rate	Direct labour hour percentage		
Variable rates	semivariable rates		
estimated	historical cost		
machine Hour rate	Direct labour hour percentage		
120 02 1000	2 need the ent needs percentage		
selling overhead	distribution overhead		
seming overneud	ubblication o verneua		
Fixed	Variable		
wage hour	indirect labour hour		
wage near	manos meen near		
Variable overhead	Semi variable overhead		
Variable overhead	Semi variable overhead		
Semi variable Expenses	Direct expenses		
value of stock	value of materials		
value of stock	value of materials		
value of stock	value of materials  value of materials		
value of stock	value of materials		
value of stock	value of materials  value of materials		
value of stock	value of materials		
value of stock	value of materials		
	1.0000 01.111101101		
Variable overhead	Semi variable overhead		
value of stock	value of materials		
value of stock	value of materials		
value of stock	value of materials		
value of stock	value of materials		
value of stock	value of materials		
	1.0000 01.1111011001		
Cost Apportionment	Cost absorption		
Cost Apportionment	Cost absorption	÷	
- 550 1 Ipportionnion	cost accorption		
Cost Apportionment	Cost absorption		
Leon Theoremient	Cost absorption		

## **ANSWER**

ANSWER
Indirect Expenses
1
Cost
Cost
Indirect material
Cost
Cost
Indirect
Indirect
Indirect
indirect expenses
manufacturing overhead
factory overhead
Adminstration overhead
Selling overhead
seming over nead
1. 4. 91. 4. 1. 1.
distribution overhead
fixed overhead
semivariable overheads
Normal
1 voi mai
abnormal
controllable
un controllable
Indirect material
mun'ect material
Cost classification
Cost allocation
Cost apportionment
Cost apportionment
cost absorption
Cost Allocation
<b>Departmentalisation</b>
Departmentansation
Service
· · · · · · · · · · · · · · · · · · ·

Departmentalisation
Departmentalisation
Departmentalisation
direct material cost percentage
Direct labour cost percentage
1 3
prime cost percentage
Direct labour hour percentage
I was
machine hour rate
Estimated rates
Audit
machine hour rate
Actual
1 Actual
Over
machine Hour
fixed overhead
fixed overhead
Variable Expenses
Floor area
Light points
Value of plant
value of stock
Value of materials
No.of, Employees
Valueof plant
F
fixed overhead
No.of, Employees
Direct materials
Direct wages
Floor area
Actual Expenses
Actual Expenses
Cost Apportionment
Cost Classification
Cust Classification
Cost allocation
Cost allocation

QUESTION		
UNIT - IV		
is a method of costing to findout the cost of a product at a each stage or		
process of production		
there are certain industries where the passes through the different stages of a		
product		
process cosing is used to find out of the product at the end of each stage		
are collected for each process and debited to the process account		
is arrived by dividing the total process cost by the number of units produced		
cost of the finished product is the sum of all costs incurred in all the process		
costing the production is carried on in anticipation of demand		
costing the costs are computed periodcally for each process		
are transferred from one process to another process		
costing the paper work is compartively less		
loss refers to the loss which is unavoidble in a manufacturing process		
value of normal loss units in credited to process account		
The cost of normal loss is treted as a part of		
loss refers to the avoidabe loss		
can be estimated in advance		
Abnormal loss arises when the actual loss is more thanthe losss		
The cost abnormal loss is not included in the		
gain arises when the actual output is higher than the expected normal output		
abnormal gain is treated on of cost of production		
inter process profit is the difference betweentransfer price and		
is the production carried on against specific orders from customers		
accumulated for each job		
cost are not transferred except when there is production		
process costing facilitates correct		
process costing is based on cost		
job costing is a method of cost of an individual job		
each job is treated as a cost unit for which costs are		
job costing shows the cost and of each job		
method of costing adopted in printing press		
job costing is also known as		
Specific order costing is also known as		
In costing the production is always against the customer order		
the cost data provided by job costing helps in		
cost reordered under job costing help in preparation of		
Each treated as a cost unit		
Contracts are generally of a duration		
costing is mainly adopted in construction of bridges		
the number of contract undertaken are usually		
the price is paid in installments depending on the process of work		
Contract costing is a form of costing		

a seprate	accou	nt is prepared for each co	ontract
	cost usually co	onstitute a major portion	of the total cost of the contract
	_ cost usually cor	nstitue a small portion of	the total cost of contract
The direct lab	our cost incurred	on the contract is	to the contract account
the direct exp	enses incurred for	the contract is also	to the contract account
	which cannot b	e directly charged to con	tract
	_ contracts take a	a long time for completio	on and require huge investments
	money is paid to	the contractor after the	expiry of a stipulate time
	is treated as a	reserve	
the	_ price is paid in	installments depending or	n the process of work
	_ contract is a co	ntract in which the contra	actee agrees to pay the cost of work
done plus a pe	ercenatge of it tov	wards profit	
in which conta	ract	contracts is assure a	fixed percentage of profit
j	s clause in contra	ct agreement	
1	product refers to	the secondary product of	otained during the course of
manufacturing	manufacturing the main product		
value of closii	ng stock of	is considerd as	zero for the purpose of balance sheet
expenses are incurrd for setting the by products			
method by products are valued at the current market price			
method by products are valued at standard cost			
products refers two or more products of equal importance which are			
prodcuced from same raw material			
	has its own price and market utility		
		•	

OPTION1	OPTION2	OPTION3
Process costing	Job costing	Unit costing
Goods	Product	Raw material
Cost	Expenses	Unit costing
Overhead	Direct wages	Direct labour
Taotal cost	Product expenses	Cost per unit
Taotal cost	Product expenses	Cost per unit
Process costing	Job costing	Unit costing
Process costing	Job costing	Unit costing
Process costing	Job costing	Unit costing
Process costing	Job costing	Unit costing
Normal	Abnormal	Controllable
Usable	Realisble	Unusable
Sales value	Cost of production	Cost of sales
Abnormal Loss	Normal Loss	Avoidable Loss
Abnormal Loss	Normal Loss	Avoidable Loss
Abnormal Loss	Normal Loss	Avoidable Loss
Sales value	Cost of production	Cost of sales
Normal Gain	Abnormal Gain	Expected Gain
usable	recovery	wastage
unit price	cost price	abnormal price
Process costing	Job costing	Unit costing
cost	price	unit
low	high	surplus
value of stock	high	surplus
Future cost	historical cost	estimate cost
Cost allotment	ascertainment of cost	allocation of cost
ascertined	accumulated	collected
profit& losss	profit	loss
Process costing	Job costing	Unit costing
terminal costing	Job costing	Unit costing
Process costing	Job costing	Unit costing
Process costing	Job costing	Unit costing
Decision making	Planning	Cost control
Report	Budget	Cost Data
unit price	process	Contract
Long	Short	medium
Process costing	Job costing	Unit costing
High	Small	Medium
Process costing	Job costing	Unit costing
Specific order costing	Job costing	Unit costing

Contract	Unit	Job
Direct	Indirect	Fixed
Direct	Indirect	Fixed
Debited	Credited	Enetered
Debited	Credited	Enetered
Dircet expenses	Indirect Expenses	Fixed Expenses
Large	Small	Medium
usable	recovery	wastage
Notional profit	recovery	wastage
Process costing	Job costing	Unit costing
Cost + contract Cost + contract	Esclation clause Esclation clause	Retention money Retention money
Cost + contract	Esclation clause	Retention money
Substitute	Joint	By product
Substitute	Joint	By product
Selling& distribution	Production	purchase
Replacement method	Standard Cost method	Apportionment Method
Replacement method	Standard Cost method	Apportionment Method
Substitute	Joint	By product
Substitute	Joint	By product

OPTION4	ANSWER
Contract costing	Process costing
Sales	Raw material
Income	Cost
Indirect wages	Overheads
sales cost	Cost per unit
sales cost	Total Cost
Contract costing	Process costing
Un controllable	Normal
controllable	Realisble
cost per unit	Cost of production
Unavoidable loss	Abnormal Loss
Unavoidable loss	Abnormal Loss
Expected Loss	<b>Expected Loss</b>
cost per unit	Cost of production
Less Gain	Abnormal Gain
useful	recovery
normal price	Unit price
Contract costing	job costing
sales	Cost
defecit	surplus
defecit	value of stock
prime cost	historical cost
classification of cost	ascertainment of cost
changed	accumulated
revenue cost	profit
Contract costing	job costing
Contract costing	terminal costing
Contract costing	job costing
Contract costing	job costing
cost Reduction	Planning
Selling Price	Budget
Unit	Contract
very long	Long
Contract costing	process costing
Very Low	Small
Contract costing	Contract Costing
Contract costing	Specific order costing

Specific Order	Contract
Variable	Direct
Variable	In direct
Fixed	Debited
Fixed	Debited
Variable Expenses	Indirect Expenses
Very High	Large
useful	recovery
useful	Notional Profit
Contract costing	<b>Contract Costing</b>
Unit Contract	Cost + contract
Unit Contract	Cost + contract
Unit Contract	Esclation clause
Related product	By product
Related product	By product
Raw material expenses	Selling& distribution
Allocation Method	Replacement Method
Allocation Method	Standard cost
Related product	Joint Product
Related product	Joint Product

QUESTION	OPTION1
UNIT - V	
Each treated as a cost unit	unit price
Contracts are generally of a duration	Long
costing is mainly adopted in	
construction of bridges	Process costing
the number of contract undertaken are usually	
	High
the price is paid in installments depending	
on the process of work	Process costing
Contract costing is a form of costing	Specific order costing
a seprate account is prepared for each	
contract	Contract
cost usually constitute a major portion	
of the total cost of the contract	Direct
cost usually constitue a small portion	
of the total cost of contract	Direct
The direct labour cost incurred on the contract is	
to the contract account	Debited
the direct expenses incurred for the contract is also	
to the contract account	Debited
which cannot be directly charged to	
contract	Dircet expenses
contracts take a long time for	1
completion and require huge investments	Large
money is paid to the contractor after the	
expiry of a stipulate time	usable
is treated as a reserve	Notional profit
the price is paid in installments depending	•
on the process of work	Process costing
contract is a contract in which the	5
contractee agrees to pay the cost of work done plus a	
percenatge of it towards profit	Cost + contract
In which contract contracts is assure a	
fixed percentage of profit	Cost + contract
is clause in contract agreement	Cost + contract
If work completed of the contract	
price is taken to profit and loss account	one fourth
contracts such as constuctions of	
bridgs, theatres and hospitals takes a long time to	
complete	Large
operating costing is also called	Process

is a method of costing applied to	
ascertain the cost of providing a service	Operating Costing
type of costing used in transport	Operating Costing
services type of costing used in transport	Operating Costing
	Operating Costing
Service rendered in the same oraganisation is known as	Internal Compa
	Internal Service
percent is calculated by dividing the	
toatl cost by number of service units produced or	0 ' 0 '
renderd	Operating Costing
A proper cost unit must be selected in oredr to	
ascertain the unit of services	Cost
other name of service costing	Operating Costing
industries using costing do not produce	
goods but render service	Operating Costing
service rendered to the customers is known as	Internal Service
Example sof external services	Hospital
In case only one variable is taken	Simple cost unit
In case more than one variable is	
combined	Composite costing
the basic problem in costing is	
the selection of cost unit	Composite costing
changes are incurred weather the	
vechicle is running or not	Standing Charges
in Standing charges variables are in	
nature	Fixed
is one of the example of	
standing charge	Rent
expenses variable in nature	Standing Charges
·	
is an example of operating charge	Pertol/ diesel
charges are semi variable in nature	Standing Charges
is an example of maintenance	5 5
charge	Repairs
Garrage rent will occur in	Fixed cost
Tax and insurance will occur in	Fixed cost
general supervision will occur in	Fixed cost
tyres and tube cost will appear in	Fixed cost
repair cost will appear in	Fixed cost
Painting Cost will appear in	Fixed cost
Pertol, oil, grease Cost will incurr in	Fixed cost
,, B	
Wages of operators will incurr in cost	Fixed cost
Deprication will incur in cost	Fixed cost
costing is generally for long duartion	Job costing
costing is generally for long quartion	JOO COSCIIIS

the contract price is paid in	
depending on the process of work	monthly
Each contract is treated as a unit	Cost
All cost are accumulated and ascertained for	
contract	All
A contract accounts are prepared for	
each contract	Multiple
on contract is usually excecuted at the	
size of the contract	Work
usaually constitute a major portion	Direct cost
expenses which cannot be directly	
changed to contracts	Direct expenses
can be ascertained only on completion	
of the contract	Profit
In Standing charges variables are in	
nature	Fixed

OPTION2	OPTION3	OPTION4	
		***	
process	Contract	Unit	
Short	medium	very long	
Job costing	Unit costing	Contract costing	
Small	Medium	Very Low	
Job costing	Unit costing	Contract costing	
Job costing	Unit costing	Contract costing	
Unit	Job	Specific Order	
Indirect	Fixed	Variable	
Indirect	Fixed	Variable	
Credited	Enetered	Fixed	
Credited	Enetered	Fixed	
Indirect Expenses	Fixed Expenses	Variable Expenses	
Small	Medium	Very High	
recovery	wastage	useful	
recovery	wastage	useful	
Job costing	Unit costing	Contract costing	
Esclation clause	Retention money	Unit Contract	
Esclation clause	Retention money	Unit Contract	
Esclation clause	Retention money	Unit Contract	
two fourth	three fourth	one fifth	
small	medium	Very small	
Job costing	Contract costing	Service costing	

		<u> </u>
Job costing	Contract costing	Service costing
Job costing	Contract costing	Service costing
External Service	Both	Costing Service
Job costing	Contract costing	Service costing
Demand	Sales	Supply
Job costing	Contract costing	Service costing
Job costing	Contract costing	Service costing
External Service	Both	Costing Service
Manufacttuting industry	service outlet	distributors
composite cost unit	Multiple cost unit	single cost unit
multiple costing	single unit costing	opertaing costing
multiple costing	single unit costing	opertaing costing
operating charges	maintenance charges	variable charges
Variable	Semivariable	Changed
Salary	Fuel	Power
operating charges	maintenance charges	variable charges
annual tax	Insurance	Rent
operating charges	maintenance charges	variable charges
Depreciation	Wages	Annual Tax
Variable Cost	Maintenance Cost	Operating Cost
Variable Cost	Maintenance Cost	Operating Cost
Variable Cost	Maintenance Cost	Operating Cost
Variable Cost	Maintenance Cost	Operating Cost
Variable Cost	Maintenance Cost	Operating Cost
Variable Cost	Maintenance Cost	Operating Cost
Variable Cost	Maintenance Cost	Operating Cost
Variable Cost	Maintenance Cost	Operating Cost
Variable Cost	Maintenance Cost	Operating Cost
Process costing	unit costing	Contract Costing

annually	installments	quaterly	
Sales	Purchase	Supply	
Each	Single	Multiple	
seprate	Single	All	
Process	Account	Sales	
Indirect cost	total cost	Fixed Cost	
Indirect Expenses	variable expenses	Fixed Expenses	
Loss	Sales	Demand	
Variable	Semivariable	Changed	

## **ANSWER**

ANSWER
Contract
Contract
Long
nroces costing
process costing
Small
Contract Casting
Contract Costing
Specific order costing
Contract
Contract
Direct
In direct
in unect
Debited
D 1.4 1
Debited
Indirect Expenses
1
T
Large
recovery
Notionla Profit
Tionionia i ioni
<b>Contract Costing</b>
Cost + contract
Cost + contract
Esclation clause
Esciation ciause
one fourth
_
Large
Service Costing

Operating Costing
Operating Costing
Internal Service
Operating Costing
Cost
Operating Costing
Operating Costing external service
Hospitals
simple cost unit
composite costing
Operating Costing
standing charges
Fixed
Rent
operting charges
Petrol/Diesel
maintenance charges
Repairs
Fixed Cost
Fixed Cost
Fixed Cost
Maintenance cost
Maintenance cost
Maintenance cost
Operating Cost
<b>Operating Cost</b>
Operating Cost
contract costing

Installments	
Cost	
All	
Seprate	
Work	
Direct Cost	
<b>Direct Expenses</b>	
Profit	
Fixed	

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Elements of Cost: Material/Inventory Control Techniques. Accounting and Control of purchases, Storage and Issue of Materials. Methods of Pricing of Materials Issues – FIFO, LIFO, Simple Average, Weighted Average, Replacement, Standard Cost, Treatment of Material Losses. Labour – Accounting and Control of labour cost, Time Keeping and Time Booking. Concept and Treatment of Idle time. Overtime, Labour Turnover and Fringe Benefits – Methods of Wage Payment and the Incentive Schemes – Halsey, Rowan, Taylors Differential Piece Wage.

## **Material Control**

The materials are a major part of the total cost of producing a product and are one of the most important assets in majority of the business enterprises. Hence the total cost of a product can be controlled and reduced by efficiently using materials.

The materials are of two types, namely:

- (i) Direct materials: The materials which can be easily identified and attributable to the individual units being manufactured are known as direct materials. These materials also form part of finished products. All costs which are incurred to obtain direct materials are known as direct material costs.
- (ii) Indirect materials: Indirect materials, on the other hand, are those materials which are of small value such as nuts, pins, screws, etc. and do not physically form part of the finished product. Costs associated with indirect materials are known as indirect material costs. Factory supplies, office supplies and selling supplies are generally termed as stores.

#### PURCHASING CONTROL AND PROCEDURE

Purchasing is an art. Wrong purchases increase the cost of materials, store equipments and the finished goods. Hence it is imperative that purchases should be effectively, efficiently and economically performed.

# **Methods of Purchasing**

Purchasing can be broadly classified as centralized and localized purchasing.

(a) *Centralized Purchasing*: In a large organization, manufacturing units are many. In such cases centralized purchasing is beneficial. The advantages of centralized purchasing are:

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- 1. Specialized and expert knowledge is available.
- 2. Advantages arise due to bulk purchases.
- 3. The cost of purchasing can be reduced and selling price can be lowered.
- 4. As there is good knowledge of market conditions, greater control can be exercised.
- 5. When materials have to be imported, it is advantageous to centralize the buying.
- 6. Economy and ease in compilation and consultation of results.
- 7. It can take advantage of market changes.
- 8. Investment in inventories can be reduced.
- 9. Other advantages include undivided responsibility, consistent buying policies.
- 10. Factors to be considered when decision regarding centralization has to be taken are geographical separation of plants, homogeneity of products, type of material bought, location of supplies etc.
- (b) *Decentralization of Purchases:* The advantages of localized purchasing or decentralization of purchases are:-
- 1. Each plant may have its own particular need. This can be given special attention.
- 2. Direct contact can be established with suppliers.
- 3. The time lag between indenting and receiving materials can be reduced.
- 4. Technical requirements of each plant can be ascertained.

# **PURCHASE PROCEDURE / PROCUREMENT PROCEDURE:** The steps usually followed for purchase of materials may be enumerated as follows:-

- 1. **Indenting for materials :** The stores department prepares indents for the purchase of materials for replenishment of stocks (regular indents) or for a special job(special indents) and sends it to the purchase department. Regular indents are prepared periodically and placed when the ordering level for different items of stocks are reached. The quantity indented is equal to the ordering quantity fixed for each item. The special indents are based on the demands received either from the planning or production department.
- 2. **Issue of tenders to suppliers**: The purchase department issue tenders to suppliers or

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publish them in papers. The suppliers quote their terms of price and delivery/payment. After the last date for receipt of quotations is over, the tenders are opened and a comparative statement is prepared. Tenders are prepared in triplicate. Of them, two are sent to the suppliers and one is retained with the purchase department. The supplier mentions his terms in the original.

While considering the tenders, the reliability of the supplier has to be taken into account. The quality of goods and time taken to deliver the goods on previous occasions should be checked. The financial stability and capacity to deliver goods should be ensured. Sometimes purchases may be made without inviting quotations. The circumstances are when prices are controlled, or purchases are made under long term contracts, or catalogue prices are available or when there is a cost plus contract. If purchase is made under cost plus profit basis, the cost composition and reasonableness of price should be checked.

3. **Placing of purchase orders**: Normally six copies of purchase order are made. The supplier, stores, inspection department, store accounting section, purchase department and progress department are sent one copy each.

The purchase order has legal and accounting significance. From legal point of view, it binds both the parties to the terms of the contract. Form the accounting point of view; it signifies the amount which has to be spent. It signifies the stores department to accept the goods and the accounts department to accept the bill.

4. **Inspection**: The supplier delivers goods at the place specified. Two delivery challans are prepared by the supplier one of which is returned. It is a proof of delivery. After receiving the goods, the inspection department or production department or maintenance department (as the case may be) is intimated.

The inspector checks that the materials are in accordance with the quality required, standard expected, tolerances allowed etc. After inspection an inspection note is prepared in triplicate, one copy is sent to the supplier, one to the stores, and one to the inspection department.

5. **Receiving Stores:** The stores department prepares a Stores Receipt Note for the quantity

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of stock accepted in inspection. After issuing of the stores receipt, the storekeeper is responsible for the stocks. The stores receipt is the document for the posting of receipts in Bin Card and the Stores Ledger. It is prepared in quadruplicate and sent to the supplier; stores accounting section and purchase department and one copy are retained with the stores. The supplier encloses this copy along with his bill. The stores accounting section compares the note with the purchase order.

**6.** Checking and passing of bills for payment: Bills received by the purchase department are forwarded to the stores accounting section to check the authenticity regarding quantity and price and the arithmetical accuracy. Special items included in the bills eg:freight, packing charges are verified with the purchase order. The bill is later passed for payment.

#### **STOREKEEPING**

Store keeping is a service function. The storekeeper is a custodian of all the items kept in the store. The stores should be maintained properly and cost minimized. The main objectives of store keeping are:-

- i)To protect stores against losses
- ii)To keep goods ready for delivery/issue
- iii)To provide maximum service at minimum cost.

The duties and functions of Store-keeper can be summarized as follows:

- i) Materials should be received, unloaded, inspected and then moved to stores. The materials have to be stored in appropriate places and records the receipts in proper books.
- ii) The stores records should be maintained in an efficient and orderly manner so that materials can be easily located and information can be obtained for various departments.
- iii) The stores should provide maximum protection and safety and accessibility and utilize minimum space. Suitable storage devices should be installed.

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iv) The materials should be given special covering to prevent damage due to atmospheric conditions.

- v) All issues should be properly recorded, efficiently, promptly and accurately. All issues should be duly authorized and procedures laid down should be duly followed.
- vi) The storekeeper is responsible for co-ordination with materials control according to the type of production, size of the company, the organization structure etc.
- vii) Ensure that all transactions are posted in the Bin Card see that the Bin Card is up-to-date. viii)All items should be in its proper place.
- ix) Maintenance of stores at required levels.
- x) Neatness in stores to facilitate physical verification.
- xi) Co-ordination and supervision of staff in the stores department.
- xii) Periodical review of various scales, measuring instruments, conversion ratios etc.
- xiii) Protect stores from fires, rust, erosion, dust, theft, weather, heat, cold, moisture and deterioration etc.

## COMPUTATION OF STOCK LEVELS

One of the duties of the storekeeper is to send requisitions for materials for replenishment in time so that the production is not held up due to shortage of materials. The storekeeper should also see that there is no unnecessary blocking of capital due to overstocking of materials. For this he keeps a check on the re-order level, economic ordering quantity, and the maximum and minimum quantity which he is authorized to store in respect of each kind of material.

#### (a) Re-ordering Level

Re-ordering level is that point of level of stock of a material where the storekeeper starts the process of initiating purchase requisition for fresh supplies of that materials. This level is fixed somewhere between the maximum and minimum levels in such a way that the difference of quantity of the material between the re-ordering level and minimum level will be sufficient to meet the requirements of production until the fresh supply of the materials is received.

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#### (b) Economic Ordering Quantity

The quantity of material to be ordered at one time is known as economic ordering quantity. This quantity is fixed in such a manner as to minimize the cost of ordering and carrying the stock. The total costs of a material usually consist of:

Total acquisition cost + total ordering cost + total carrying cost.

Since the acquisition cost per unit of material is same whatever is the quantity purchased, it is usually excluded when deciding the quantity of a material to be ordered at one time. The only costs to be taken care of are the ordering costs and carrying costs which vary with the quantity ordered.

# (c) Minimum Level or Safety Stock level

The minimum level is the minimum quantity of the material which must be maintained in hand at all times. The quantity is fixed so that the production is not held up due to shortage of the materials.

## (d) Maximum Level

It is the maximum of stock which should be held in stock at any time during the year.

The quantity is fixed so as to avoid overstocking as it leads to the following disadvantages.

- 1. Overstocking leads to increase in working capital requirement which could be profitable used somewhere else.
- 2. Overstocking will need more godown space, so more rent will have to be paid.
- 3. It may also lead to obsolescence on account of overstocking.
- 4. There are chances that the quality of materials will deteriorate because large stock will require more time before they are consumed.
- 5. There may be fear of depreciation in market values of the overstocked materials.

#### (e) Danger Level

This level means that level of stock at which normal issues of the material are stopped and issues are made only under specific instructions. The purchase officer will make special arrangements to get the materials which reach at their danger levels so that the production may not stop due to shortage of materials.

#### STORES (OR MATERIALS) RECORDS

In the stores the most important two records kept are bin cards and stores ledger.

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(a) Bin Card. A bin card is a record of the receipt and issue of material and is prepared by the store keeper for each item of stores. A bin card is also known as bin tag or stock card and is usually kept in the rack where the material is kept. In a bin card not only the receipt and issue of material is recorded, minimum quantity, maximum quantity and ordering quantity are stated on the card. This helps the store keeper to send the material requisition for the purchase of material in time.

(b) Stores Ledger: This ledger is kept in the costing department and is identical with the bin card except that receipts, issues and balances are shown along with their money values. This provides the information for the pricing of materials issued and the money value at any time of each item of stores.

#### PERPETUAL INVENTORY SYSTEM

The Chartered Institute of Management Accountants, London, defines the perpetual inventory as "a system of records maintained by the controlling department, which reflects the physical movements of stocks and their current balance". Thus this is a system in which, with the help of Bin Cards and Stores Ledger, the balance of stock is ascertained after every receipt and issue of materials. This is helps in avoiding closing down of firm for physical verification.

## **Advantages of the Perpetual Inventory System**

The following are the advantages of the perpetual inventory system:

- 1. It avoids the disruption of production for physical checking of all items of stores at the end of the year.
- 2. The preparation of Profit and Loss Account and Balance Sheet is possible without physical verification of stock.
- 3. A detailed and more reliable control on the materials in store is obtained.
- 4. As the work of recording and continuous stocktaking is carried out systematically and without undue haste, the figures are more reliable.
- 5. Continuous stocktaking will make the storekeeper and the stores accountant more vigilant in their work and they will try to keep the records accurate and up-to-date.
- 6. Planning of production can be done without any fear of shortage as the management is constantly informed of the stores position.
- 7. An inbuilt system of internal check will be in operation as bin cards and the stores ledger

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keep a check on each other.

- 8. Errors and shortage of stock are readily discovered and efforts are made to avoid the shortage of stock in future.
- 9. The capital invested in the stores can be kept under control and efficiently used as stock can be compared with the minimum and maximum levels.
- 10. It makes available correct stock figures for claim to be lodged with the insurance company for loss on account of stock destroyed by fire.

#### **ABC ANALYSIS**

Under ABC Analysis, the materials in stock are divided into three categories for the purpose of control. Generally it is seen that the materials which constitute the least percentage of items in stock may contribute to a large percentage of value and a large percentage of items may represent a smaller percentage of value of items consumed. Between these two items are those items, the percentage of which is more or less equal to their value in consumption. Items falling in the first category are treated as 'A' items, of the second category as 'B' items and items of the third category are taken as 'C' items. Such an analysis of material is known as ABC analysis. This technique of stock control is also known as stock control according to value method or Always Better Control method or Proportional Parts Value Analysis method. Thus, under this technique of material control, materials are listed in 'A', 'B' and 'C' categories in descending order based on money value of consumption.

ABC analysis measures the cost significance of each item of material. It concentrates on important items, so it is also known as 'Control by Importance and Exception' (CIE). The report of the Indian Productivity Team on "Stores and Inventory Control in U.S.A., Japan and West Germany" gives the following example of ABC Analysis:

Percentage of Costs
75%
20%
5%

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The significance of this analysis is that a very close control is exercised over the items of 'A' group which account for a high percentage of costs while less stringent control is adequate for category 'B' and very little control would suffice for category 'C' items.

#### **ISSUE OF MATERIALS**

Materials issued from stores are debited to the jobs or work orders which received them and credited to the materials account. These jobs are debited with the value of materials issued to them.

But what is the value of materials? Theoretically the value includes the invoice price less trade discount, the freight, cartage, octroi and insurance on incoming materials, expenses of purchase, receiving, storing and record keeping and carriage from the stores up to the process plant. However, in practice, it involves minute calculations for including all these expenses and is a big task compared to the benefit derived from it.

Moreover the price changes according to the market conditions and at any given time there will be stock of materials purchased at different times at different prices. Hence the problem as to at what price the materials should be issued?

The important methods followed in pricing of issue of materials are:-

- 1. Actual Cost Method
- 2. First-In First-Out (FIFO) Method
- 3. Last-In First-Out (LIFO) Method
- 4. Highest-in First-Out (HIFO) Method
- 5. Simple Average Cost Method
- 6. Weighted Average Cost Method
- 7. Periodic Average Cost Method
- 8. Standard Cost Method
- 9. Replacement Cost Method
- 10. Next in First Out (NIFO) Method
- 11. Base Stock Method.

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#### 1. Actual Cost Method:

Where materials are purchased specially for a specific job, actual cost of materials is charged to that job. Such materials will normally be stored separately and issued only to that particular job.

# 2. First-In First-Out (FIFO) Method:

CIMA defines FIFO as "a method of pricing the issue of material using, the purchase price of the oldest unit in the stock". Under this method materials are issued out of stock in the order in which they were first received into stock. It is assumed that the first material to come into stores will be the first material to be used.

#### **Advantages**:

- (a) It is easy to understand and simple to price the issues.
- (b) It is a good store keeping practice which ensures that raw material leave the stores in a chronological order based on their age.
- (c) It is a straight forward method which involves less clerical cost than other methods of pricing.
- (d) This method of inventory valuation is acceptable under standard accounting practice.
- (e) It is a consistent and realistic practice in valuation of inventory and finished stock.
- (f) The inventory is valued at the most recent market prices and it is near to the valuation based on replacement cost.

## **Disadvantages**:

- (a) There is no certainty that materials which have been in stock longest will be used, if they are mixed up with other materials purchased at a later date at different price.
- (b) If the price of the materials purchased fluctuates considerably, it involves more clerical work and there is possibility of errors.
- (c) In a situation of rising prices, production cost is understated.
- (d) In inflationary market, there is a tendency to under-price material issues. In deflationary market, there is a tendency to overprice such issues.
- (e) Usually more than one price has to be adopted for a single issue of materials.
- (f) The method makes cost comparison difficult of different jobs when they are charged with varying prices for the same materials.

This method is more suitable where the size of the raw materials is large and bulky and its price

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is high and can be easily identified in the stores separately. This method is useful when the frequency of material receipts is less and the market price of the material are stable and steady.

## 3. Last-In First-Out (LIFO) Method:

Under this method most recent purchase will be the first to be issued. The issues are priced out at the most recent batch received and continue to be charged until a new batch received is arrived into stock. It is a method of pricing the issue of material using the purchase price of the latest unit in the stock.

#### **Advantages:**

- (a) Stocks issued at more recent price represent the current market value based on the replacement cost.
- (b) It is simple to understand and easy to apply.
- (c) Product cost will tend to be more realistic since material cost is charged at more recent price.
- (d) In times of rising prices, the pricing of issues will be at a more recent current market price.
- (e) It minimizes unrealized inventory gains and tends to show the conservative profit figure by valuation of inventory at value before price rise and provides a hedge against inflation.

#### **Disadvantages:**

- (a) Valuation of inventory under this method is not acceptable in preparation of financial accounts.
- (b) It is an assumption of a cash flow pattern and is not intended to represent the true physical flow of materials from the stores.
- (c) More than one price may have to be adopted for an issue.
- (d) It renders cost comparison between jobs difficult.
- (e) It involves more clerical work and sometimes valuation may go wrong.
- (f) In times of inflation, valuation of inventory under this method will not represent the current market prices.

## 4. Highest-in First-Out (HIFO) Method:

Under this method, the materials with highest prices are issued first, irrespective of the date upon which they were purchased. The basic assumption is that in fluctuating and inflationary market, the cost of material are quickly absorbed into product cost to hedge against risk of inflation. This

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method is used when the material is in short supply and in execution of cost plus contracts. This method is not popular and not acceptable under standard accounting practices.

## 5. Simple Average Cost Method:

Under this method all the materials received are merged into existing stock of materials, their identity being lost. The simple average price is calculated without any regard to the quantities involved. The simple average cost is arrived at by adding the different prices paid during the period for the batches purchased by dividing the number of batches. For example, three batches of materials received at Rs. 10, Rs. 12 and Rs. 14 per unit respectively.

#### The simple average price is calculated as follows:

Rs. 10 + Rs. 12 + Rs. 14/3 batches = Rs. 36/3 batches = Rs. 12 per unit

This method is not popular because it takes into consideration the prices of different batches but not the quantities purchased in different batches. This method is used when prices do not fluctuate very much and the stock values are small in value.

# 6. Weighted Average Cost Method:

It is a perpetual weighted average system where the issue price is recalculated every time after each receipt taking into consideration both the total quantities and total cost while calculating weighted average price. For example, three batches of material received in quantities of 1,000 units @ Rs. 15, 1,300 units @ Rs. 16 and 800 units @ Rs. 14.

## The weighted average price is calculated as follows:

(1,000 units x Rs. 15) + (1,300 units x Rs. 16) + (800 units x Rs. 14)/1,000 units + 1,300 units + 800 units

= Rs. 15,000 + Rs. 20,800 + Rs. 11,200/3,100 units = Rs. 47,000/3,100 units = Rs. 15.16 per unit This method tends to smooth out the fluctuations in price and reduces the number of calculations to be made, as each issue is charged at the same price until a fresh batch of material is received. This method is easier as compared to FIFO and LIFO, as there is no necessity to identify each batch separately. But this method increases the clerical work in calculation of new average price every time a new batch is received. The issue price calculated rarely represents the actual purchase price.

## 7. Periodic Average Cost Method:

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Under this method, instead or recalculating the simple or weighted average cost every time there is a receipt, an average for the accounting period as a whole is computed.

#### 8. Standard Cost Method:

Under this method, material issues are priced at a predetermined standard issue price. Any variance between the actual purchase price and standard issue price is written off to the Profit and Loss Account. Standard cost is a predetermined cost set by the management prior to the actual material costs being known and the standard issue price is used for all issues to production and for valuation of closing stock.

If initially the standard price is set carefully then it reduces all the clerical work and errors tremendously and the stock recording procedure is simplified. The realistic production cost comparisons can be made easier by eliminating fluctuations in cost due to material price variance. In a situation of fluctuating prices, this method is not suitable.

## 9. Replacement Cost Method:

This method is also called as 'market price method'. The replacement cost is a cost at which material identical to that can be replaced by purchasing at the date of pricing material issues; as distinct from the actual cost price at the date of purchase. The replacement price is the price of replacing the material at the time of issue of materials or on the date of valuation of closing stock.

This method is not acceptable for standard accounting practice, since it reflects a cost which has not really been paid. If stocks are held at replacement cost, for balance sheet purposes when they have been bought at a lower price, an element of profit which has not yet been realized will be built into the Profit and Loss Account.

This method is advocated by charging the market price of material to the job or process, make it easier to determine the profitability of the job or process. This method is suitable particularly in the inflationary tendency of market prices of materials. Where there is no precise market for particular materials, it would be difficult in ascertainments of replacement prices for the material issues.

#### 10. Next in First Out (NIFO) Method:

This method is a variant of replacement cost method. Under this method the price quoted on the

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latest purchase order or contract is used for all issues until a new order is placed.

#### 11. Base Stock Method:

Under this method, a specified quantity of material is always held in stock and is priced at its original cost as buffer or base stock; and any issue of materials above the base stock quantity is priced under any one of the methods discussed above.

This method indicates how prices are moving over a longer period of time. But this method is not popular and also not accepted under standard accounting practice since it would result in stock valuation totally unrealistic.

#### LABOUR COSTING

Labour cost is a second major element of cost. The control of labour cost and its accounting is very difficult as it deals with human element. Labour is the most perishable commodity and as such should be effectively utilized immediately.

## **Importance of Labour Cost Control**

Labour is of two types (a) direct labour, (b) indirect labour. Direct Labour is that labour which is directly engaged in the production of goods or services and which can be conveniently allocated to the job, process or commodity or process. For example labour engaged in spinning department can be conveniently allocated to the spinning process.

Indirect Labour is that labour which is not directly engaged in the production of goods and services but which indirectly helps the direct labour engaged in production. The examples of indirect labour are supervisors, sweepers, cleaners, time-keepers, watchmen etc. The cost of indirect labour cannot be conveniently allocated to a particular job, order, process or article. The distinction between direct and indirect labour must be observed carefully because payment of direct labour is a direct expenditure and is a part of prime cost labour is an item of indirect expenditure and is shown as works, office, selling and distribution expenditure according to the nature of the time spent by the indirect worker.

## **Time Wage System**

Under this method of wage payment, the worker is paid at an hourly, daily, weekly or monthly rate. This payment is made according to the time worked irrespective of the work done.

This method is highly suitable for following types of work:

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1. Where highly skilled and apprentices are working.

- 2. Where quality of goods produced is of extreme importance eg., artistic goods
- 3. Where the speed of work is beyond the control of the workers.
- 4. Where close supervision of work is possible.
- 5. Where output cannot be measured.

The disadvantages of this method are:

- 1. Workers are not motivated.
- 2. Workers will get payment for idle time.
- 3. Efficient workers will become inefficient in the long run as all of them get same wages.
- 4. Employer finds it difficult to calculate labour cost per unit as it varies as production increases and decreases.
- 5. Strict supervision is necessary to get the work done.
- 6. Inefficiency results in upsetting the production schedule and increases the cost per unit.
- 7. It will encourage a tendency among workers to go slow so as to earn overtime wages.

Thus this method does not establish a proportionate relationship between effort and reward and the result is that it is not helpful in increasing production and lowering labour cost per unit.

## Piece Rate System (payment by result)

The piece rate system is that system of wage payment in which the workers are paid on the basis of the units of output produced. Piece rate system does not consider the time spent by the workers. Piece rate system is the method of remunerating the workers according to the number of unit produced or job completed. It is also known as payment by result or output. Piece rate system pays wages at a fixed piece rate for each unit of output produced. The total wages earned by a worker is calculated by using the following formula.

Total Wages Earned= Total units of outputs produced x Wage rate per unit of output.

Total Wages Earned= Output x Piece Rate

#### **Advantages of Piece Rate System**

I. The following are some important advantages of piece rate system of wage payment. Piece rate system pays wages according to the output produced by the workers. It

encourages efficient workers.

OR.

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II. Piece rate system helps to **reduce idle time**.

III. Piece rate system gives incentives to the workers to adopt a better method of production for increasing their production and earning.

- IV. Piece rate system helps the management to determine the exact labour cost per unit for submitting quotation.
- V. Piece rate system reduces per unit cost of production due to increased volume of production.

Piece rate system requires less supervision cost.

## **Disadvantages of Piece Rate System**

I. The following are the notable disadvantages of piece rate system

Piece rate system does not help in producing quality output as the workers are
concentrated more on quantity instead of quality.

- II. Piece rate system does not help for a uniform flow of production and makes difficult to regulate the production schedule.
- III. It is very difficult to fix an acceptable and reasonable piece rate for each item of output or job.

Piece rate system adversely affects the workers' health as well.

IV. It requires extra supervision cost for quality output and effective use of materials, tools and equipment.

There are four variants of this system.

- a) Straight piece rate system
- b) Taylor's differential piece rate system
- c) Merrick's multiple piece rate system
- d) Gant's task and bonus plan

## (a) Straight piece rate system

Payment is made as per the number of units produced at a fixed rate per unit. Another method is piece rate with guaranteed time rate in which the worker is given time rate wages if his piece rate wages is less than the time rate.

#### (b) Taylor's Differential Piece Rate system

Differential Piece Rate System was introduced by Taylor, the father of scientific

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management. The underlying principle of this system is to penalise a slow worker by paying him a low piece rate for low production and to reward an efficient worker by giving him a higher piece rate for a higher production. Taylor was of the view that an inefficient worker should have no place in the organisation and he should be compelled to leave the organisation by paying him a low piece rate for low production.

Taylor proceeded on the assumption that through time and motion study it is possible to fix a standard time for doing a particular task. To encourage the workers to complete the work within the standard time, Taylor advocated two piece rates, so that if a worker performs the work within or less than the standard time, he is pad a higher piece rate, and if he does not complete the work within the standard time, he is given a lower piece rate.

Thus, if the standard production has been fixed at 8 units per day of 8 hours (taking normal piece rate as Re 1), the higher piece rate for 8 units or beyond may be Rs 1.20 per unit and the lower rate for an output of less than 8 units per day, may be 80 P. per unit.

Hence, Taylor decided to give a large reward to those who would complete the work within or less than the standard time and much less wages to those who would not complete the job within the standard time. The system is very harsh to the inefficient workers because they earn much less wages on account of lower output and lower rate.

Moreover, minimum wages are not guaranteed under this method. Another drawback of the system is that if a worker just fails to complete the work within the standard time earns much less wages than a worker who just completes the job within the standard time. Therefore, the system is now almost out of use.

### **Illustration:**

Calculate the earnings of workers A and B under Straight Piece-rate System and Taylor's Differential Piece-rate System from the following particulars:

Normal rate per hour = Rs 1.80

Standard time per unit = 20 seconds

Differentials to be applied:

80% of piece rate below standard

120% of piece rate at or above standard.

Worker A produces 1,300 units per day and worker B produces 1,500 units per day.

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### c) Merrick's Multiple Piece Rate System

This method seeks to make an improvement in the Taylor's differential piece rate system. Under this method, three piece rates are applied for workers with different levels of performance.

Wages are paid at ordinary piece rate to those workers whose performance is less than 83% of the standard output, 110% of the ordinary piece rate is given to workers whose level of performance is between 83% and 100% of the standard and 120% of the ordinary piece rate is given to workers who produce more than 100% of the standard output.

This method is not as harsh as Taylor's piece rate because penalty for slow workers is relatively lower.

# **Advantages**

Efficient workers are rewarded handsomely.

# **Disadvantages**

- (i)Wide gap in slabs of differential wage rate
- (ii)Over emphasis in high production rate

# d. Gant's task and bonus plan

Gant's task and bonus plan is based on careful time and motion study. A standard time is fixed for doing a particular task, worker's actual performance is compared with the standard time and his efficiency is determined. If a worker takes more time than the standard time to complete the task (i.e., his efficiency is below 100%), he is given wages for the time taken by him and if a worker takes the standard time to perform the task (i.e., efficiency is 100%), he is given wages for the standard time and a bonus of 20% on the wages earned.

If the worker completes the task in less than the standard time he is given wages for the standard time plus a bonus of 20% of the wages for the standard time. In other words, if a worker's performance is more than 100% he is given piece wages plus bonus at 20% of piece wages. Thus, with every reduction in time, the plan ensures progressive increase in total wages. For this reason, the plan is also known as "Progressive Rate System".

### Advantages:

- 1. The plan is not as harsh as the Taylor's differential piece rate is. Therefore, it is more acceptable to the workers.
- 2. It is simple to understand.

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- 3. It ensures guaranteed time wages to the worker who is below average workers.
- 4. It makes distinction between efficient and inefficient workers because the system ensures time wages for sub-standard workers and piece wages plus 20% bonus for standard and superstandard workers. Increasing rate of bonus is very satisfying to the efficient workers, so every worker tries to become more efficient.
- 5. Fixed cost per unit decreases with increase in production due to incentive for efficiency given under this scheme of wage payment.

### Disadvantages:

- 1. Like Taylor's differential piece rate method, it divides the workers into competing categories—one who earns the bonus and the other who does not earn the bonus. This brings disunity among workers and becomes unacceptable to the labour union.
- 2. The guaranteed time wages may not encourage efficiency if workers feel satisfied with the time wages.

# **Premium and Bonus Plan**

The object of a premium plan is to increase the production by giving an inducement to the workers in the form of higher wages for less time worked.

Under a premium plan, a standard time is fixed for the completion of a specific job or operation at an hourly rate plus wages for a certain fraction of the time saved by way of a bonus. The plan is also known as incentive plan because a worker has the incentive to earn more wages by completing the work in less time.

This system of wage payment is in between the time wage system and piece work system. In time wage system, worker does not get any reward for the time saved and in piece work system, the worker gets full payment for time saved whereas in a premium plan both the worker and the employer share the labour cost of the time saved.

The following are some of the important premium plans.

(i) **Halsey Premium Plan**: Under this method, the worker is given wages for the actual time taken and a bonus equal to half of wages for time saved. The standard time for doing each job or operation is fixed. In practice the bonus may vary from  $33\frac{1}{3}$  % to  $66\frac{2}{3}$  % of the wages of the time saved.

Thus if S is the standard time, T the time taken, R the labour rate per hour, and % the

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percentage of the wages of time saved to be given as bonus, total earnings of the worker will be:

 $T \times R + \% (S-T) R$ 

Under Halsey-Weir plan, the premium is set at 30% of the time saved.

(ii)**Rowan Plan:** The difference between Halsey plan and Rowan Plan is the calculation of the bonus. Under this method also the workers are guaranteed the time wages but the bonus is that proportion of the wages of the time taken which the time saved bears to the standard time allowed.

Total Earnings =  $T \times R + S - T \times T \times R$ 

### LABOUR TURNOVER

Labour turnover denotes the percentage change in the labour force of an organisation. High percentage of labour turnover denotes that labour is not stable and there are frequent changes in the labour force because of new workers engaged and workers who have left the organisation. A high labour turnover is not desirable.

# The definitions of labour turnover are given below:

# (1) Labour turnover according to separation method:

This definition does not take into consideration the fact of surplus labour. This definition will give incorrect result when the surplus workers are discharged because labour turnover calculated in this way will be high.

### (2) Labour turnover according to flux method:

This definition will not be applicable when the organisation is expanding. In such a case, many new workers are engaged and there may be no separation; even then labour turnover calculated will be high.

This definition will misguide when an organisation has reached its optimum size and does not require expansion at all. In such a case, labour turnover, as per this definition, will show half the actual percentage of labour turnover.

### (3) Labour turnover according to replacement method:

This definition takes into account the surplus labour. This definition will also give correct labour turnover when the factory is expanding because all additions are not to be taken only workers replaced due to leavers are to be taken. Therefore, this definition can be taken to be the most

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reliable definition out of all the definitions given above.

### **POSSIBLE QUESTIONS**

1. The 'received' side of the stores ledger account shows the following particulars:

Jan 1 Opening balance: 500 units @ Rs. 4

Jan 5 Received from vendor: 200 units @ Rs. 4.25

Jan 12 Received from vendor:150 units @ Rs. 4.10

Jan 20 Received from vendor:300 units @ Rs. 4.50

Jan 25 Received from vendor:400 units @ Rs. 4

Issues of materials were as follows:

Jan. 4 – 200 units; Jan. 10 – 400 units; Jan. 15 – 100 units; Jan. 19 – 100 units; Jan. 26 –

200 units; Jan. 30 - 250 units;

Issues are to be priced on the principle of 'First in First out'. Write out the Stores ledger

Account in respect of the materials for the month of January.

2. What is EOQ and calculate the EOQ from the following information. Also state the

No. of orders to be placed in a year.

Consumption of materials per annum 10,000 Kgs.

Order placing costs per order Rs.50

Cost per Kg. of raw materials Rs.2

Storage costs 8% on average in inventory.

- 3. From the following particulars calculate:
- a) Re-order level b) Minimum level and c) Maximum level

Normal usage 100 units per day

Minimum usage 60 units per day

Maximum usage 130 units per day

Economic order quantity 5000 units

Re-order period 25 to 30 days

4. From the following particulars supplied by the personal department of a company,

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calculate labour turnover:

Total number of employees at the beginning of the month 2010

Number of employees who are recruited during the month 30

Number of employees who left during the month 50

Total number of employees at the end of the month 1990

- 5. What is EOQ?
- 6. What is perpetual inventory system?
- 7. What is ABC Analysis?
- 8. Describe the Methods of Pricing Issue of Materials?



QUESTION	OPTION1	OPTION2 OPTION3		OPTION4
UNIT - II				
cost is				
one of the most important				
elements of the cost of				Adminstrative
production	Labour	material	Selling Overhaead	Overhead
Inventory means	Stock	Material	Stores	Sales
BIN card is maintained by	Storekeeper	Accountant	Auditor	Supervisor
EOQ =	√AO/C	√AC/O	√2AO/C	$\sqrt{2}$ CA/C
level below				
which stock level should				
not be allowed to fall at any				
time	Minimum	Maximum	Re- Order level	Average
Market price method is also				
called as		Replcement		Base stock
method	Method	method	Average Method	Method
scarp is arises		Administrative	Ü	Average
due to bad workmanship	legimate scrap	scarp	Defective Scarp	Stock
Spoilage is		1	1	
uncontrollable or				
unavoidable	Normal	Abnormal	Defective	Average
card is attached to		material transfer		
each bin	Material control	note	BIN card	Stores ledger
Docum				
ent which records transfer of				
surplus from one job to		material transfer		
another	Material control	note	BIN card	Stores ledger
ensures				_
effective utilisation of				
material	control	usage	material control	wastage
avoids over				
investment in inventories	control	usage	material control	wastage
ensures upto				
date maintance of stock				
records	control	usage	material control	wastege
taking is an		_		_
essential future of the			continuous stock	Material
prepetual inventory system	bin card	stores ledger	taking	transfer note
storce ledger is kept in the			-	
department	production	sales	stores	costing

	always better		analysis of best	always best
ABC means	control	always best cost	cost	cost
under method a				
standard are fixed price is				
used for pricing issues	actual	fixed	standard	costing
scrap refers to	damage	wastage	reused	valueless
refers to a units				
of output which failed to				
reach the require standard of				
quality or specification	scrap	spoilage	wastage	damage
is the portion of				_
raw material lost in				
processing having no				
recovery value	scrap	spoilage	wastage	damage
gives the	•	1		
complete list of materials				
required for a particular job				contract
or work order	job costing	process costing	unit costing	costing
is		5		J
attached to each bin to show				
the position of stock in the				stock transfer
bin	bin card	stores ledger	bill of material	note
is known as				stock transfer
atomatic inventory system	perputal inventory	stores ledger	bill of material	note
An system of				
material control will lead to				
a significant reduction in				
total cost of production	Poor	Better	Efficient	good
helps to				
prevent over stocking of		material transfer		
materials	Material control	note	BIN card	Stores ledger
prevents loss				
during storage of raw		material transfer		
materials	Material control	note	BIN card	Stores ledger
Inventory means	Stock	Material	Cost	Sales
card helps				
the store keeper to control		material transfer		
the stock	Material control	note	BIN card	Stores ledger
By seeing the				20000
the storekeeper can send the				
material requstion for		material transfer		
purchase of material in time	Material control	note	BIN card	Stores ledger
parenase of material in time	Iviatoriai control	11010	DIT Cara	Stores reager

	ı	1	1	1
contains the				
accounts for each class of		material transfer		
material	Material control	note	BIN card	Stores ledge
is				
maintained in loose leaf		material transfer		
form	Material control	note	BIN card	Stores ledge
A gives				
a complete list of materials				
required for a particular job		material transfer		Bill of
or work order	Material control	note	BIN card	material
serve as a				
purchase requsition to the		material transfer		Bill of
purchase department	Material control	note	BIN card	material
purenase department	Widterial Control	note	Dir Cara	material
Method in which materials				
are issued inorderin which				
	EIEO	LIEO	EEEO	LEIO
they are received in the store	FIFO	LIFO	FFFO	LFIO
metjod materials received	ETEC	LIEO	PPPO	LEIO
last are issued first	FIFO	LIFO	FFFO	LFIO
The minimum quanity is	Base stock	Simple Avarage	weighted avearge	Market price
known as	method	Method	method	method
method is				
determined by adding				
different prices of materials	Base stock	Simple Avarage	weighted avearge	Market price
in stock	method	Method	method	method
method				
takes into account both				
quanity and price for	Base stock	Simple Avarage	weighted avearge	Market price
arriving at the average price	method	Method	method	method
method				
is also called replacement	Base stock	Simple Avarage	weighted avearge	Market price
method	method	Method	method	method
method				
a stsndard or a fixed price is	Standard price	Simple Avarage	weighted avearge	Market price
used for pricingf the issues	Method	Method	method	method
	iviculou	iviculou	memou	memod
Anything which has no				
value is considered to be	,	G	G 1:	
	wastage	Scarp	Spoliage	materials

	T	1	T	1
may be	,	G	G 1:	
normal or abnormal	wastage	Scarp	Spoliage	materials
is sold				
without further treatement				
are used as raw material for			a 1:	
another process	wastage	Scarp	Spoliage	materials
is a				
document which authorises				
and records the issues of	Material	material transfer		Bill of
materials for use	Requstion Note	note	BIN card	material
Goods received note is				
prepared by the department				
receiving the goods from the				
	Supplier	Customer	Producer	Distributor
scrap refers to	damage	wastage	reused	valueless
level below				
which stock level should				
not be allowed to fall at any				
time	Minimum	maximum	reorder level	zero level
Market price method is also				
called as	Standard price	Replcement		Base stock
method	Method	method	Average Method	Method
scarp is arises		Administrative		Average
due to bad workmanship	legimate scrap	scarp	Defective Scarp	Stock
Spoilage is				
uncontrollable or				
unavoidable	Normal	Abnormal	Defective	Average
card is attached		material transfer		
to each bin	Material control	note	BIN card	Stores ledger
				S
Document which				
records transfer of surplus		material transfer		
from one job to another	Material control	note	BIN card	Stores ledger
ensures				
effective utilisation of				
material	control	usage	material control	wastage
avoids over				
investment in inventories	control	usage	material control	wastage
ensures upto				
date maintance of stock				
records	control	usage	material control	wastege
taking is an	Collinoi	usuge	material collinor	wasiege
essential future of the			continuous stock	Material
prepetual inventory system	bin card	stores ledger	taking	transfer note
prepetual inventory system	om caru	swics ieugei	laking	uansici note

storce ledger is kept in the				
department	production	sales	stores	costing
	always better		analysis of best	always best
ABC means	control	always best cost	cost	cost
under method a				
standard are fixed price is				
used for pricing issues	actual	fixed	standard	costing
storce ledger is kept in the				
department	production	sales	stores	costing

### **ANSWER**

Material

Stock

Store

keeper

√2AO/C

# Minimum

Base stock

Method

legimate

scrap

# Normal

**BIN** Card

material

transfer

note

material

control

material

control

material

control

continuous

stock

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always
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actual
damage
damage
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Stores Ledger Stores Ledger Bill of material Bill of material FIFO LIFO Base stock method Simple Avarage Method weighted avearge method Market price method Standard price Method

wastage

wastage Scarp Material Requstion Note Supplier damage minimum Base stock Method legimate scrap Normal BIN Card material transfer note material control material control material control continuous stock taking

costing

always

better

control

actual

costing

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# **SYLLABUS**

Elements of Cost: Ovrheads – classification, Allocation, Apportionment and absorption of Overheads – Under and over Absorption – Capacity Levels and costs – Treatment of certain items in costing like interest on capital – packing expenses, bad debts, Research and Development expenses – Activity based cost Allocation.

### **OVERHEAD COSTING**

Cost related to a cost center or cost unit may be divided into two i.e. Direct and Indirect cost. The Indirect cost is the overhead cost and is the total of indirect material cost, indirect labour cost, indirect expenses. CIMA defines indirect cost as "expenditure on labour, materials or services which cannot be economically identified with a specific saleable cost per unit". Indirect costs are those costs which are incurred for the benefit of a number of cost centres or cost units. So any expenditure over and above prime cost is known as overhead. It is also called 'burden', 'supplementary costs', 'on costs', 'indirect expenses'.

Overheads can be classified on the following basis:

- i) **Function-wise classification**: Overheads can be divided into the following categories on functional basis.
- (a) Manufacturing or production overheads e.g.:- indirect materials like lubricants, cotton wastes, indirect labour like salaries and wages of supervisors, inspectors, storekeepers, indirect expenses like rent, rates and insurance of factory, power, lighting of factory, welfare expenses like canteen, medical etc.
- (b) Administration overheads e.g.:- indirect materials like office stationery and printing, indirect labour salaries of office clerks, secretaries, accountants, indirect expenses rent, rates and insurance of office, lighting heating and cleaning of office, etc.
- (c) Selling and Distribution overheads e.g.:- indirect materials like catalogues, printing, stationery, price list, indirect salary of salesmen, agents, travellers, sales managers, indirect expenses like rent, rates and insurance of showroom, finished goods, godown etc., advertising expenses, after sales service, discounts, bad debts etc.

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ii) **Behavior-wise classification**: Overheads can be classified into the following categories as per behavior pattern.

- (a) Fixed overheads like managerial remuneration, rent of building, insurance of building, plant etc.
- (b) Variable overheads like direct material and direct labour.
- (c) Semi-variable overheads like depreciation, telephone charges, repair and maintenance of buildings, machines and equipment etc.
- iii) **Element-wise classification**: Overheads can be classified into the following categories as per element.
- (a) Indirect materials
- (b) Indirect labour
- (c) Indirect expenses

#### Allocation of overheads

Allocation of overheads is assigning a whole item of cost directly to a cost centre. An item of expense which can be directly related to a cost centre is to be allocated to the cost centre. For example, depreciation of a particular machine should be allocated to a particular cost centre if the machine is directly attached to the cost centre.

### **Apportionment of overhead**

Apportionment of overhead is distribution of overheads to more than one cost centre on some equitable basis. When the indirect costs are common to different cost centers, these are to be apportioned to the cost centers on an equitable basis. For example, the expenditure on general repair and maintenance pertaining to a department can be allocated to that department but has to be apportioned to various machines (Cost Centers) in the department. If the department is involved in the production of a single product, the whole repair & maintenance of the department may be allocated to the product.

### **Primary and Secondary Distribution of Overheads**

In case of multi-product environment, there are common service cost centres which are providing services to the various production cost centres and other service cost centres. The costs of services are required to be apportioned to the relevant cost centres. First step to be followed is

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to apportion the overheads to different cost centres and then second step is to apportion the costs of service cost centres to production cost centres on an equitable basis. The first step is termed as primary distribution and the second step is termed as secondary distribution of overheads.

### **Absorption of overheads**

Absorption of overheads is charging of overheads from cost centres to products or services by means of absorption rates for each cost center which is calculated as follows:

# Overhead absorption Rate = Total overheads of the cost centre / Total quantum of base

The base (denominator) is selected on the basis of type of the cost centre and its contribution to the products or services, for example, machine hours, labour hours, quantity produced etc.

Overhead absorbed = Overhead absorption rate x units of base in product or service

### APPORTIONMENT AND ABSORPTION OF PRODUCTION OVERHEADS

Overheads are to be apportioned to different cost centres based on following two principles:

- i)Cause and Effect Cause is the process or operation or activity and effect is the incurrence of cost. Apportionment of overheads based on this criterion ensures better rationality as it is guided by the relationship between cost object and cost.
- ii) Benefits received overheads are to be apportioned to the various cost centres in proportion to the benefits received by them.

### **Primary Distribution of overheads:**

Basis of primary apportionment of items of production overheads is to be selected to distribute them among the cost centres following the above two principles. Basis of apportionment must be rational to distribute overheads. Once the base is selected, the same is to be followed consistently and uniformly. However, change in basis for apportionment can be adopted only when it is considered necessary due to change in circumstances like change in technology, degree of mechanization, product mix, etc. In case of such changes, proper disclosure in cost records is essential.

### **Secondary Distribution of Overheads:**

Secondary distribution of overheads may be done by following either Reciprocal basis or

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Non-Reciprocal Basis. While reciprocal basis considers the exchange of service among the

service departments, non-reciprocal basis considers only one directional service flow from a service cost centre to other production cost centre(s).

### **Secondary Apportionment of Overheads on Reciprocal Basis**

The services rendered by certain service cost centers are also utilized by other service cost centers. In reciprocal secondary distribution, the cost of service cost centers are apportioned to production cost centers as well as other service cost centers. In such case, any one of the following three methods may be followed:

- I. Repeated Distribution Method
- II. Trial & Error Method
- III. Simultaneous Equation Method

# **Repeated Distribution Method**

Steps to be followed under this method are:

- i)The proportion at which the costs of a service cost centres are to be distributed to production cost centres and other service cost centres are determined.
- ii)Costs of first service cost centres are to be apportioned to production cost centres and service cost centres in the proportion as determined in step (i).
- iii)Similarly, the cost of other service cost centres are to be apportioned.
- iv) This process as stated in (ii) and (iii) are to be continued till the figures remaining undistributed in the service cost centres are negligibly small. The negligible small amount left with service centre may be distributed to production cost centres.

### **Trial and Error Method**

This method is to be followed when the question of distribution of costs of service cost centres which are interlocked among themselves arises. In the first stage, gross costs of services of service cost centres are determined and then in the second stage, costs of service centres are apportioned to production cost centres. Steps to be followed:

- i) The proportion at which the costs of a service cost centre to be distributed to production cost centres and other service cost centres is determined.
- ii) Cost of first service cost centre is distributed to the other service centres in the

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proportion of service they received from the first as assessed in step (i).

- iii) In the next step, total cost of second service cost centre so arrived has to be distributed to the other service centres in the proportion of service they received from the second as assessed in step (i).
- iv) Similarly, the cost of other service cost centres are to be apportioned to the service cost centres.
- v) This process as described in (iii) and (iv) is to be continued till the figures remaining undistributed in the service cost centres are negligibly small.
- vi) At the last, total cost of service cost centres to be distributed to production cost centres.

### **Simultaneous Equation Method**

The simultaneous equation method is to be adopted to take care of secondary distribution of cost of service cost centres to production cost centres with the help of mathematical formulation and solution. Steps to be followed:

- i) Proportion of service benefits received by different cost centres from a cost centre are assessed on the basis of records
- ii) The same ratios are used as coefficients in the equations framed for apportionment of cost of service cost centres to production cost centres.
- iii) Solution of the equations gives the cost of service cost centres.
- iv) Cost of service cost centres to be distributed to production cost centres

# Secondary Apportionment of Overheads on Non-Reciprocal basis

In non-reciprocal secondary distribution, the costs of service cost centres are apportioned to the production cost centres. Steps involved are :

- i) The cost of first service cost centre is apportioned on a suitable basis to production cost centres.
- ii) The next step is to apportion the cost of second service centre to the production cost centres as indicated in stage (i).
- iii) The process is to be continued till the costs of all service cost centres are apportioned.

### **Absorption of Production Overheads and production capacity**

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Overheads shall be analysed into variable overheads and fixed overheads. The variable production overheads shall be absorbed to products or services based on actual capacity utilisation.

The fixed production overheads and other similar item of fixed costs such as quality control cost shall be absorbed in the production cost on the basis of the normal capacity or actual capacity utilization of the plant, whichever is higher.

In case of less production than normal, under-absorption of overheads shall be adjusted with Costing Profit & Loss Account. In case of higher production than normal, the overabsorption of overheads shall also be adjusted with Costing Profit & Loss Account.

# **Apportionment and absorption of Administrative Overheads**

Administrative overheads include the following items of cost:

Printing and stationery, other office supplies Employees cost – salaries of administrative staff Establishment expenses – Office rent & rates, insurance, depreciation of office building and other assets, legal expenses, audit fees, bank charges etc.

Administrative overheads are to be collected in different cost pools such as:

- General Office
- Personnel department
- Accounts department
- Legal department
- Secretarial department etc

Administrative overheads are to be further analysed into two – one for production activities and other for sales and distribution activities. Costs collected under the cost pools indicated above are to be distributed to administrative overheads relating to production activities and administrative overheads relating to selling and distribution activities on rational basis for each cost pool.

Administrative overheads relating to production activities are to be apportioned to different production cost centres on the basis conversion costs of production cost centres. The apportioned overheads are absorbed to products on the basis of the normal capacity or actual capacity, whichever is higher.

In case of under-absorption or over-absorption of administrative overheads relating to

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production, the same shall also be adjusted with Costing Profit & Loss Account.

# Apportionment and absorption of Selling overheads and Distribution overheads

The selling overheads and distribution overheads are collected under different cost pools such as:

Selling Overheads:

- (i) Sales Employees cost
- (ii) Rent
- (iii) Travelling expenses
- (iv) Warranty claim
- (v) Brokerage & Commission
- (vi) Advertisement relating to sales and sales promotion
- (vii) Sales incentive
- (viii) Bad debt etc

Distribution Overheads:

- (i) Secondary Packaging
- (ii) Freight & forwarding
- (iii) Warehousing & storage
- (iv) Insurance etc.

# Re-apportionment of Service Department Costs to Production Departments

Service department costs are to be reapportioned to the production departments or the cost centres where production is going on. This process of re-apportionment of overhead expenses is known as 'Service Distribution'. The following is a list of the bases of apportionment which may be accepted for the service departments noted against.

### **Service Department Cost**

### **Basis of Apportionment**

- 1. Maintenance Department
- 2. Payroll or time-keeping department
- 3. Store keeping department -Hours worked for each department
- -Total labour or Machine hours or number of employees in each department
- 4. Employment or Personnel department.

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- 5. Purchase Department
- 6. Welfare, ambulance, canteen service, recreation room expenses.
- 7. Building service department
- 8. Internal transport service or overhead crane service
- 9. Transport Department crane hours, truck hours, truck mileage, truck tonnage, truck tonne-hours, tonnage handled, number of packages.
- 10. Power House (Electric power cost) wattage, horse power, horse power machine hours, number of electric points etc.

### FACTORY OVERHEAD COSTS

On financial statements, each product must include the costs of the following:

- 1. Direct material
- 2. Direct labour
- 3. Manufacturing (or factory) overhead

According to generally accepted accounting principles (GAAP), manufacturing overhead must be included in the cost of Work in Process Inventory and Finished Goods Inventory on a manufacturer's balance sheet, as well as in the Cost of Goods Sold on its income statement. As their names indicate, direct material and direct labour costs are *directly* traceable to the products being manufactured. Manufacturing overhead, however, consists of *indirect* factory-related costs and as such must be divided up and allocated to each unit produced. For example, the property tax on a factory building is part of manufacturing overhead. Although the property tax covers an entire year and appears as one large amount on just one tax bill, GAAP requires that a portion of this amount be allocated or assigned to each product manufactured during that year.

Some of the costs that would typically be included in manufacturing overhead include:

- 1. Material handlers (forklift operators who move materials and units).
- 2. People who set up the manufacturing equipment to the required specifications.

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- 3. People who inspect products as they are being produced.
- 4. People who perform maintenance on the equipment.
- 5. People who clean the manufacturing area.
- 6. People who perform record keeping for the manufacturing processes.
- 7. Factory management team.
- 8. Electricity, natural gas, water, and sewer for operating the manufacturing facilities and equipment.
- 9. Computer and communication systems for the manufacturing function.
- 10. Repair parts for the manufacturing equipment and facilities.
- 11. Supplies for operating the manufacturing process.
- 12. Depreciation on the manufacturing equipment and facilities.
- 13. Insurance and property taxes on the manufacturing equipment and facilities.
- 14. Safety and environmental costs.

Note that all of the items in the list above pertain to the manufacturing function of the business. Since the costs and expenses relating to a company's administrative, selling, and financing functions are not considered to be part of manufacturing overhead, they are not reported as part of the final product cost on financial statements. Rather, nonmanufacturing expenses are reported separately (as SG&A and interest expense) on the income statement during the accounting period in which they are incurred.

#### ADMINISTRATION OVERHEAD

Administration overhead is the indirect expenditure incurred for performing administrative functions. It includes expenses for formulating the policy, directing the organisation, controlling the operations of an undertaking and motivating the staff in order to attain the goals of the enterprise. Naturally, these expenses are not associated with production on sales or distributions or research and development.

Examples of administration overheads are- Office Rent, Office Salaries, Office Lighting, Insurance, Establishment charges, Postage, Repairs, Legal expenses, Audit fees, Depreciation of furniture, Stationery, Travelling expenses, Conveyance, General administrations/management expenses, Directors' fee, Directors' remuneration, Bank charges, etc. These expenses are, usually, fixed in nature and are not affected by the quantity of production or sales.

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Accounting Treatment of Administration Overhead:

### There are three methods that are used for the treatment of administration overhead viz.,

- (a) Apportionment between production and Selling and Distributions Departments.
- (b) Transfer to Costing Profit and Loss Account; and
- (c) Inclusion as a separate item of Cost.

# (a) Apportionment between Production, Selling and Distribution Department:

Under this method, administration overheads are incurred only for two important departments i.e., (i) Production and (ii) Selling and Distribution. As the administration overheads are incurred for the above two departments, the same should be apportioned between them on a suitable basis considering the nature and type of expenses although it is not an easy task to find out a suitable basis of apportionment.

# Usually the following basis is to be followed:

It may be mentioned here that the apportionment of administration overhead to production is treated in the same manner as other items of overhead, (i.e. apportionment to production department and service department).

### (b) Transfer to Costing Profit and Loss Account:

Under this method, it is assumed that administration overheads do not have any direct relationship with production and sales, rather they are treated as fixed/period cost and, hence, these overheads should be transferred to Costing Profit and Loss Account. Moreover, this administration overhead is not concerned with day-to-day activities and does not pay much attention to production or sales, rather they are related to other important factors like formulating policy, relation with the labour and Govt., etc., That is why, the entire amount of administrations expenses are charged to Costing Profit and Loss Account.

# (c) Inclusion as a Separate item of Cost:

Under this method, administration overhead is treated as a separate item of cost on the assumption that administration is a separate function like other functions(e.g.,production/salesetc.) and should be charged to products to find out a suitable basis for absorption.

# However, the bases of absorption are:

(i) Factory Cost;

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- (ii) Net Sales Value or Quantity;
- (iii) Gross Profit on Sales
- (iv) No. of units sold and manufactured;
- (v) Conversion Cost;
- (vi) Selling Cost.

# **Examples of selling and distribution expenses are:**

### **Selling Overhead:**

#### Fixed:

Showroom expenses, Sales office expenses, Cost of market research, Cost of samples etc.

#### Variable:

Commission on Sales, Travelling Salesmen' Salary, Carriage Outwards, Discount Allowed, Bad Debts etc.

#### **Distribution Overhead:**

#### Fixed:

Storage, Godown Rent, Rates and Insurance, Distributors' Commission, etc.

### Variable:

Insurance on goods-in-transit, Packing charges, etc.

### Accounting Treatment of Selling and Distribution Overheads:

Selling and Distribution expenses are apportioned as per different functions viz.,

Transportation, Advertisement and Sale Promotion, Storage and Warehousing, Direct selling, Credit and Collection etc. Again, each of them can be sub-divided into various territories like, South, North, West etc.

It must be remembered here that all identifiable expenses (e.g., commission on sales, travelling expenses of salesmen etc.) can directly be allocated to the respective territories. But identifiable expenses are apportioned on a suitable basis. However, we are highlighting here the basis of apportionment of Selling and Distribution expenses.

It is needless to say that all expenses are to be added to cost of products sold. We have already shown the classification of a Selling and Distribution overheads into fixed and variable

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types. This classification is absolutely required for effective control.

However, fixed overheads are allocated/ apportioned among the products sold under any one of the following basis:

- (a) Works Cost;
- (b) Gross Profit on Sales;
- (c) No. of Units Sold;
- (d) Percentage on Selling Price.

### (a) Works Cost:

Under this method, percentage of selling overheads to works cost is to be found out in order to absorb selling and distribution overheads.

For example, if works cost amounts to Rs. 40,000 and Selling and Distribution overhead amounts to Rs. 10,000, absorption of Selling and Distribution cost will be

#### (b) Gross Profit on Sales:

This method takes a larger share of selling and distribution overhead than are applied to goods presenting a wide margin of profit, and vice versa.

### (c) No. of Units Sold:

Under this method, in order to ascertain the per unit rate, total selling and distribution overheads are divided by the total number of units. This method is particularly applicable where the company sales a particular or single kind of product.

For example, say, company X Ltd. produces only one type of T. V. sets. In a year the company produces 1,000 T. V. sets and total selling and distribution overheads are Rs. 1, 00,000 then absorption of selling and distribution p.u. will be Rs. 100 (i.e. Rs. 1, 00,000/1,000)

# (d) Percentage of Selling Price:

Under this method, the total fixed selling and distribution overheads are absorbed on the basis of percentage on selling price. The rate is calculated in advance on normal fixed selling and distribution expenses and on normal selling price. For example, if fixed selling and distribution expenses amount to Rs. 25,000 and the expected sales are Rs. 20,00,000, the percentage will be 12.5% (i.e., Rs. 25,000/ 20,00,000 x 100) on sales.

### Control of Selling and Distribution Overhead:

It is very difficult to control the selling and distribution overhead as most of them are

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fixed in nature. Only variable portion may be controlled. as well.

# POSSIBLE QUESTIONS

#### Part - B

11. Amit Company has five departments; P, N, R, S are producing departments and T is a Service department. The actual costs for a period are as follows:

	Rs.
Repairs	2,000
Rent	2,500
Depreciation	1,200
Supervision	4,000
Insurance	1,500
Employer's liability of employee's Insurance	600
Light	1,800

The following data are also available in respect of the five departments:

	Dept. P	Dept. N	Dept.	R Dept. S	S Dept. T
Area Sq. ft	140	120	110	90	40
No. of workers	25	20	10	10	5
Total wages (Rs.)	10,000	8,000	5,000	5,000	2,000
Value of plant (Rs.) 2	0,000	18,000	16,000	10,000	6,000
Value of Stock (Rs.) 1	5,000	10,000	5,000	2,000	

Apportion the costs to the various departments on the equitable basis.

12. A company is producing 3 types of products A, B and C. The sales territory of the company is divided into 3 areas X,Y and Z.

The estimated sales of the year 2017 are as under:

Product	Territor	у					
	X		Y	Z	A	В	C
	50,000	20,00 0	30,00	0.08 00	00 70,000	40.000	

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The budgeted advertising cost is as under:

Territory X (Rs. Y (Rs.) Z (Rs.) Total

Local cost 3,200 4,500 4,200 11,900

General cost - - 5,800

You are required to find the advertising cost percent on sales for each product and territory showing how you will present the statement to the management.

13. How would you apportion the following expenses between departments A and B?

Rs.

Rent and Rates 360

Insurance 130

Stores expenses 742

Fire insurance 260

General factory labour1,284

Depreciation 906

Holiday pay520

Plant repairs 450

Information regarding the departments available:

A B

Floor space 60 x 115 45 x 100

No. of employees 18 42

Annual direct wagesRs. 5,000 Rs. 6,000

Annual direct labour hours 36,000 92,500

Plant value Rs. 10,000 Rs. 2,500

14. In a factory, there are two service departments S1 and S2 and three production departments

Prepared by Dr. B. Seetha Devi, Associate Professor, Dept of Commerce, KAHE,

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P1,P2 ad P3. In April 2010, the departmental expenses were:

Departments: P1 P2 P3 S1 S2

Rs.

:6,50,000 6,00,000 5,00,000 1,20,000 1,00,000

The service department expenses are allocated on a percentage basis as follows:

Service Departments	Pro	duction D	epartments	Service Departments		
	P1	P2	P3	<b>S</b> 1	<b>S</b> 2	
S1	30%	40%	15%	-	15%	
S2	40%	30%	25%	5%	_	

Prepare a statement showing the distribution of two service departments' expenses to these departments by Simultaneous Equation Method.



QUESTION	OPTION1	OPTION2	OPTION3
UNIT - III			
overhead means	Indirect expenses	Direct expenses	Work expenses
classification of overhead is important inorder			
to identify cost with centre	Process	sales	Cost
materials are those materials			
which do not form a part of the finished goods	direct	indirect	Raw material
identified with and allocated but can be			
apportioned to apportioned to a particular	cost	expenses	labour
labours which is not directly		•	
engaged in production of goods or services	Direct	indirect	semi- skilled
	direct	indirect	bonus
engaged in production	direct	indirect	bonus
charged to production	Indirect expenses	Direct expenses	expenses
factory expenses is also known as	overhead	overhead	selling overhead
incurred from stage to raw materials to finished	production	factory	
goods	overhead	overhead	selling overhead
the adminstrative office	overhead	overhead	selling overhead
sales and promotion of sales	overhead	overhead	selling overhead
expenses incurred for with	administration	factory	
packing and delivery of goods to customers	overhead	overhead	selling overhead
products	Fixed overhead	overhead	selling overhead
variable	Fixed overhead	overhead	selling overhead
overhead which are expected to be incurred in			
attaining a given output	Normal	Abnormal	Controllable
overhead which are not expected to be incurred			
in attaining a given output	Normal	Abnormal	Controllable
can be controlled	Normal	Abnormal	Controllable
cannot be controlled	Normal	Abnormal	Controllable
materials are those materials			
which do not form a part of the finished goods	direct	indirect	Raw material
is the process of grouping of			Cost
cost according to their common characterstics	Cost Classification	Cost Allocation	Apportionment
is defined as the allotment of			Cost
whole amount of cost centre or cost units	Cost Classification	Cost Allocation	Apportionment
is defined as the alloment			Cost
proportions of cost to cost centre or cost units	Cost Classification	Cost Allocation	Apportionment
to jobs	Cost Classification	Cost Allocation	Apportionment
Expenses which can be directly identified with			Cost
a particular department or cost centre is called	Cost Classification	Cost Allocation	Apportionment
expenses to various production and service	Departmentalisatio		Cost
department is known as	n	Cost Allocation	Apportionment

department which enable other department tp			
work	Service	Production	Sales
ascertainment	n	Cost Allocation	
supervision	n	Cost Allocation	
esssential for budgetary control	n	Cost Allocation	
is obtained by dividing the	Direct material	direct labour	prime cost
amount of overheads by direct material cost	cost percentage	cost percentage	percentage
is obtained by dividing the	Direct material	direct labour	prime cost
amount of overheads by the direct wages	cost percentage	cost percentage	*
is obtained by dividing the	Direct material	direct labour	prime cost
amount of overhead by the prime cost	cost percentage	cost percentage	percentage
is obtained by dividing the	Direct material	direct labour	prime cost
amount of overheads by the labour hours	cost percentage	cost percentage	1
is obtained by dividing the	Direct material	direct labour	machine Hour
amount of overheads by the macchine hours	cost percentage	cost percentage	
basis of	Estimate Rates	Fixed rates	Variable rates
decision making	Audit	cost	estimated
efficiencies and cost of operating different	Direct material	direct labour	machine Hour
machines	cost percentage	cost percentage	
absorbed in production less than the	1 &	1 5	
overhead	Actual	work	selling overhead
overhead absorbed in production are more than			
that of actual overhead	under	Over	Fixed
machine per hour	Labour per hour	Machine Hour	wage hour
a cost centre in order to identify the			Variable
expenses	Fixed overhead	Direct overhead	overhead
Standing charge is also known as	Fixed overhead	Direct overhead	overhead
as	Variable expenses	Fixed Expenses	Expenses
State the bases od Apportionment for rent	Floor area	value of plant	value of stock
State the bases of apportionment for lighting	Light points	value of plant	value of stock
depriciation of plant and macinery	Light points	value of plant	value of stock
of stock	Light points	value of plant	value of stock
handling charges	Light points	value of plant	value of stock
State the bases of apportionment of supervision	No.of, Employees	value of plant	value of stock
plant	No.of, Employees	value of plant	value of stock
a cost centre in order to identify the			Variable
expenses	Fixed overhead	Direct overhead	overhead
Canteen expenses is apportionmet based on	No.of, Employees	value of plant	value of stock
materials	Direct Materials	value of plant	value of stock
wages	Direct Materials	Direct wages	value of stock
taxes	Floor area	value of plant	value of stock
State the bases for advertising	Actual Expenses	value of plant	value of stock
is the process of distribution			Cost
of overheads to various departments	Cost Classification	Cost Allocation	Apportionment

and size of the business	Cost Classification	Cost Allocation	Apportionment
is process of charging the full			Cost
amount of overhead without division	Cost Classification	Cost Allocation	Apportionment

OPTION4	ANSWER
expenses	Expenses
production	Cost
cost of	
material	Indirect material
sales	Cost
Skilled	Indirect
penalty	Indirect
penalty	Indirect
expenses	indirect expenses
overhead	overhead
distribution	
overhead	factory overhead
overhead	overhead
overhead	Selling overhead
distribution	distribution
overhead	overhead
overhead	fixed overhead
overhead	overheads
Un	
controllable	Normal
Un	
controllable	abnormal
controllable	controllable
controllable	un controllable
cost of	
material	Indirect material
Cost	Cost
absorption	classification
Cost	
absorption Cost	Cost allocation Cost
absorption	apportionment
absorption Cost	cost absorption
absorption	Cost Allocation
Cost	Departmentalisa
absorption	tion
aosorphon	uvii

Purchase	Service
absorption	tion
absorption	tion
absorption	tion
work cost	direct material
percentage	cost percentage
work cost	Direct labour
percentage	cost percentage
work cost	prime cost
percentage	percentage
hour	Direct labour
percentage	hour percentage
hour	machine hour
percentage	rate
rates	<b>Estimated rates</b>
cost	Audit
hour	machine hour
percentage	rate
distribution	
overhead	Actual
X7 · 11	0
Variable	Over
	machine Hour
labour hour variable	<u> </u>
labour hour	<u> </u>
labour hour variable	machine Hour
labour hour variable overhead variable	machine Hour fixed overhead
labour hour variable overhead	machine Hour fixed overhead fixed overhead Expenses
labour hour variable overhead variable expenses	machine Hour fixed overhead fixed overhead Expenses Floor area
labour hour variable overhead variable expenses materials	machine Hour fixed overhead fixed overhead Expenses Floor area Light points
labour hour variable overhead variable expenses materials materials	machine Hour fixed overhead fixed overhead Expenses Floor area
labour hour variable overhead variable expenses materials materials	machine Hour fixed overhead fixed overhead Expenses Floor area Light points Value of plant
labour hour variable overhead variable expenses materials materials materials	machine Hour fixed overhead fixed overhead Expenses Floor area Light points Value of plant value of stock materials
labour hour variable overhead variable expenses materials materials materials materials	fixed overhead fixed overhead Expenses Floor area Light points Value of plant value of stock
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labour hour variable overhead variable expenses materials materials materials materials materials materials materials materials	machine Hour fixed overhead fixed overhead Expenses Floor area Light points Value of plant value of stock materials Employees
labour hour variable overhead variable expenses materials materials materials materials materials materials materials materials materials	fixed overhead fixed overhead fixed overhead Expenses Floor area Light points Value of plant value of stock materials Employees Valueof plant fixed overhead
labour hour variable overhead variable expenses materials materials materials materials materials materials materials materials overhead materials	machine Hour fixed overhead fixed overhead Expenses Floor area Light points Value of plant value of stock materials Employees Valueof plant
labour hour variable overhead variable expenses materials materials materials materials materials materials materials variable overhead	machine Hour fixed overhead fixed overhead Expenses Floor area Light points Value of plant value of stock materials Employees Valueof plant fixed overhead Employees Direct materials
labour hour variable overhead variable expenses materials variable overhead materials materials materials	machine Hour fixed overhead fixed overhead Expenses Floor area Light points Value of plant value of stock materials Employees Valueof plant fixed overhead Employees Direct materials Direct wages
labour hour variable overhead variable expenses materials variable overhead materials materials materials materials materials	machine Hour fixed overhead fixed overhead Expenses Floor area Light points Value of plant value of stock materials Employees Valueof plant fixed overhead Employees Direct materials Direct wages Floor area
labour hour variable overhead variable expenses materials variable overhead materials materials materials materials materials materials	machine Hour fixed overhead fixed overhead Expenses Floor area Light points Value of plant value of stock materials Employees Valueof plant fixed overhead Employees Direct materials Direct wages
labour hour variable overhead variable expenses materials variable overhead materials materials materials materials materials	machine Hour fixed overhead fixed overhead Expenses Floor area Light points Value of plant value of stock materials Employees Valueof plant fixed overhead Employees Direct materials Direct wages Floor area Actual Expenses

absorption	Classification
Cost	
absorption	Cost allocation

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#### **SYLLABUS**

Methods of Costing : Job Costing - Contract Costing - Process Costing - Process Losses, Valuation of Work in progress, Joint and By products - Service Costing (only Transport)

#### JOB COSTING

It means ascertaining costs of an individual job, work order or project separately.

According to ICMA London, "job costing is that form of specific order costing which applies where work is undertaken to customer's specific requirements and each order is of comparatively of short duration." Under this method of costing, each job is considered to be a distinct cost unit. As such, each job is separately identifiable.

In the case of a job, work is usually carried out within the factory or workshop.

Sometimes, a job is accomplished even in the customer's premises. This method of costing is applicable to ship building, printing, engineering, machine tools, readymade garments, shoes, hats, furniture, musical instruments, interior decorations etc.

#### **Features:**

- 1. Each job has its own characteristics, depending up on the special order placed by the customer.
- 2. Each job is treated as a cost unit.
- 3. A separate job cost sheet is made out for each job on the basis of distinguishing numbers.
- 4. A separate work in progress ledger is maintained for each job.
- 5. The duration of the job is normally a short period.
- 6. Profit or loss is determined for each job independently of others

# Advantages of Job costing:

- 1. It helps to distinguish profitable jobs from unprofitable jobs
- 2. It helps to identify defective work and spoilage with a department or person
- **3.** Selling price of special orders can easily be fixed.
- **4.** It helps to prepare estimates of cost for submitting quotations and tender for similar jobs
- **5.** It helps to control future cost.

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# **Requisites of Job costing system:**

**1.** A sound system of production control

**2.** An effective time booking system

**3.** Clearly defined cost centre

4. Appropriate overhead absorption rate, and

**5.** Proper material issue pricing method.

# Procedure for Job order costing system:

The Procedure for job order costing system may be summarized as follows:

- 1. Receiving an enquiry from the customer regarding price, quality etc
- 2. Make an estimation of the price of the job after considering the cost incurred for the execution of similar job in the previous year
- 3. Receiving an order, if the customer is satisfied with the quotation price and other terms of execution.
- 4. If the job is accepted, a production order is made by the Planning department.
- 5. The costs are collected and recorded for each job under separate production order Number, and a Job Cost Sheet is maintained for that purpose.
- 6. On completion of job, a completion report is sent to costing department.

# **CONTRACT COSTING**

It is a special form of job costing and it is the most appropriate method to be adopted in such industries as building and construction work, civil engineering, mechanical fabrication and ship building. In other words, it is a form of specific order costing which applies where the work is undertaken to customer's requirements and each order of long duration as compared to job costing. It is also known as terminal costing.

The official CIMA terminology defines contract costing as "a form of specific order costing in which costs are attributed to individual contracts."

## **Basic features**:

- 1. Each contract itself a cost unit.
- 2. Work is executed at customers site
- 3. The existence of sub contract

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4. Most of the expenses incurred upon the contracts are direct.

5. Cost control is very difficult in contract costing.

# **Types of contracts**

Generally there are three types of contracts:

- 1. Fixed price contracts: Under these contracts both parties agree to a fixed contract price.
- 2. Fixed price contract with Escalation clause
- 3. Cost plus contract: Under this contract no fixed price could be settled for a contract.

#### **Contract Account**

A contract account is a nominal account in nature. It is prepared to find out the cost of contract and to know profit or loss made on the contract. A contractor may undertake a number of contracts at a time. For each contract a separate account is opened. In the contract account all direct cost such as material, labour and other direct expenses incurred during an accounting period are debited and the indirect expenses are apportioned on an equitable basis. The differences between the two sides are known as Notional profit or notional loss.

# SPECIAL TERMS IN CONTRACT ACCOUNT

- 1. **Work in Progress:** It is the unfinished contract at the end of the accounting period and it includes amount of work certified and amount of work uncertified. Work in progress is an asset, shown in the balance sheet by deducting there from any advance received from the contractee.
- 2. **Work certified:** The sales value of work completed as certified by the architect is known as 'work certified'. In the case of contracts of long duration, the amount payable by the customer to the contractor is based on the sales value of work done as certified by the architect. At the end of the financial year, the total sales value of work done and certified by the architect is credited to the contract account.
- 3. **Work Uncertified:** It means work which has been carried out by the contractor but has not been certified by the architect. Sometimes, work which is complete remains uncertified at the end of the financial year. The reasons for the same may be
- a. Work not sufficient enough to be certified
- b. Work has not reached the stipulated stage to qualify for certification It is always valued at cost and credited to the contract account.

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4. **Retention money:** - Regardless of the amount of work certified, the contractor is paid a specified percentage of the same and the balance is held or retained by the contractee. This is because of the fact that the contractee has to safe guard himself against any contingency arising from the non fulfilment of the terms of the contract by the contractor. The unpaid balance of work certified or the amount held back or retained by the contractee is known as 'retention money'.

- 5. **Sub contract:** Sometimes the contractor enters into contracts with another contractor to give a portion of work undertaken by him. In such cases the work performed by the subcontractor s forms a direct charge to the contract concerned. Sub contract cost will be shown on the debit side of the contract account.
- 6. **Escalation clause**: This is clause which is provided in the contract to cover up any increase in the price of the contract due to increase in the prices of raw material or labour or in the utilization of any other factors of production. If material and labour utilization exceeds a particular limit, the customer agrees to bear the additional cost occasioned by excessive utilization. Here, the contractor has to satisfy the customer that excessive utilization is not the result of decreased efficiency.

#### **Treatment of Plant and Machinery:**

One of the distinguishing features of a contract is the use of special plant and machinery. The cost of these is capital expenditure, but yet, the usage of these should be reflected in the form of depreciation. There are two distinct methods of charging depreciation.

- 1. At the time of issue of plant to contract the contract account is debited with the full value of the plant. At the end of the period contract account is credited with the depreciated value. This method is used when plant and machinery is used at the contract site for a long period.
- 2. In the second method, contract account is debited with an hourly rate of depreciation for The number of hours the plant is used on the contract. A cost centre is set up for each machine. An estimate is made is made of the cost such as maintenance, depreciation, driver's wage etc to be incurred. The total of this cost is divided by the number of hours that the machine is expected to be used.

#### **Profit on Incomplete Contract:**

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In the case of a small contract extending over the financial period, profit or loss on the same may be ascertained by crediting it with the contract price due by the contractee. This procedure cannot be adopted in the case of contracts extending beyond the accounting period, and taking a long time for completion. If there is any profit upon the incomplete contract, it cannot be taken as actual profit. The profit upon the incomplete contract is called notional profit.

For the purpose of determining the amount of profit to be transferred to profit and loss account and making provision for future contingencies, the following guidelines may be kept in mind.

- 1. When the work has not reasonably advanced (1/4 or less than ½): No profit should be taken to the credit of p/L account in the case of contracts which have just commenced and a small portion of the work is complete.
- 2. Where the work is complete more than ¼ but less than ½ of contract price: In this case 1/3 of the notional profit as reduced by the percentage of cash received may be credited to profit and loss account. The usual formula is

Work Certified = Notional profit x1/3 xCash received

The balance of notional profit shall be kept as reserve till the completion

3. If the contract completed is more than 1/2 but less than 90%: Here 2/3 rd of the notional profit should be taken to profit and loss account.

Work Certified = Notional profit x2/3 x Cashreceived

The balance of notional profit shall be transferred to work in progress as reserve. It is to be noted that in order to find out how much portion of contract is completed, work certified should be compared with contract price.

4. **If the contract is nearing completion:** Here, estimated profit may be ascertained by deducting the total cost of contract to date plus estimated additional expenses to complete the contract, from the contract price. It is calculated by using the following formula Estimated profit x Cash received

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Contract price

#### **RETENTION MONEY**

A contractor does not receive the full payment of the work certified by the surveyor.

Contractee retains some amount to be paid after some time, when it is ensured that there is not default in the work done by the contractor. If any deficiency or defect is noticed, it is to be rectified by the contractor before the release of the retention money. Thus, the retention money provides a safeguard against the default risk in the contracts.

# **Meaning of Escalation clause:**

Escalation clause in a contract provides that if during the period of execution of a contract, the prices of materials, rates of labour etc. rise beyond a specific limit, the contract price will be increased by specified rate or amount. Escalation clause does not cover that part of increase in costs which is caused due to inefficiency or wrong estimation.

# Circumstances prompting insertion of escalation clause in the contract are :

- (i) Contract is for a long period where input cost can change significantly.
- (ii) Raw material cost are expected to increase.
- (iii) Labour rates are subject to frequent upward revisions by the regulatory authorities.
- (iv) Certain other important inputs, such as power, fuel, etc. are subject to frequent price hikes.
- (v) Total quantity of materials and labour to be used for the contract cannot be anticipated with reasonable accuracy and are likely to surpass the projections.

Escalation clause aims at safe guarding the interest of the contractor against unforeseen rise in cost. On the other hand, de-escalation clause provides for a decrease in the contract price due to decrease in the price of inputs so that the benefits of price decreases is passed on the contractee.

#### PROCESS COSTING

Process costing is the method of costing applied in the industries engaged in continuous or mass production. Process costing is a method of costing used to ascertain the cost of a product at each process or stage of manufacturing.

According to ICMA terminology, "Process Costing is that form of operation costing which applies where standardized goods are produced".

So it is a basic method to ascertain the cost at each stage of manufacturing. Separate

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accounts are maintained at each process to which expenditure incurred. At the end of each process the cost per unit is determined by dividing the total cost by the number of units produced at each stage. Hence, this costing is also called as "Average Costing" or "Continuous Costing". Process Costing is used in the industries like manufacturing industries, chemical industries, mining works and public utility undertakings.

# **Characteristics of Process Costing**

- 1. Production is continuous
- 2. Products pass through two or more distinct processes of completion.
- 3. Products are standardized and homogeneous.
- 4. Products are not distinguishable in processing stage.
- 5. The finished product of one process becomes the raw material of the subsequent process.
- 6. Cost of material, labour and overheads are collected for each process and charged accordingly.

# **Advantages of Process Costing**

- 1. It is easy to compute average cot because the products are homogeneous in Process Costing.
- 2. It is possible to ascertain the process costs at short intervals.
- 3. Process Costing is simple and less expensive in relation o job costing.
- 4. By evaluating the performance of each process effective managerial control is possible.

# **Disadvantages of Process Costing**

- 1. Valuation of work in progress is difficult.
- 2. It is not easy to value losses, wastes, scraps etc.
- 3. The apportionment of total cost among joint products and by-products is difficult.
- 4. Process cost are not accurate, they are only average costs
- 5. Process costs are only historical.

#### **Principles of Process Costing**

The following points are considered while determining the cost under Process Costing.

- 1. Production activity should be divided into different processes or departments.
- 2. A separate account is opened for each process.

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- 3. Both direct and indirect costs are collected for each process.
- 4. The quantity of output and costs are recorded in the respective process accounts.
- 5. The cost per unit is determined by dividing the total cost at the end of each process by the number of output of each process.
- 6. Normal loss and abnormal loss are credited in the process account
- 7. The accumulated cost of each process is transferred to subsequent process along with output. The output of the last process along with cost is transferred to the finished goods account.
- 8. In case of by-products and joint products their share in joint cost should be estimated and credited to the min process.
- 9. When there is work in progress at the end of the period the computation of inventory is made I terms of complete units.

# **Preparation of Process Accounts**

The preparation of Process Account depends upon the following situations

- 1. Simple Process Account
- 2. Process costing with normal process loss
- 3. Process costing with abnormal process loss
- 4. Process costing with abnormal process gains
- 5. Inter process profits.

# **Simple Process Account**

Under this case it is very easy to prepare process account. A separate account is opened for each process. All costs are debited to the process account. The total cost of the process is transferred to the next process. At the end of each process the cost per unit is obtained by dividing the total cost by the number of units.

#### **Process losses**

The process loss is classified into two- normal process loss and abnormal process loss.

#### Normal process loss

This is the loss which is unavoidable on account of inherent nature of production process. It arises under normal conditions. It is usually calculated as a certain percentage of input. Normal

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process los includes either waste or scrap r both. Waste is unsalable and has no value. Loss in weight is an example of waste. Loss in weight should be credited to the concerned process account. It should be recorded only in terms of quantity.

Loss in weight = Opening Stock + output from the preceding process – (output of the Concerned process + closing stock)

Illustration 2: From the following figures, show the cost of three processes of manufacture. The production of each process is passed on to the next process immediately on completion.

#### **Abnormal Process Loss**

Any loss caused by unexpected or abnormal conditions such as plant break don, substandard materials, carelessness, accident etc. or loss in exceeds of the margin anticipated for normal process loss can be called as abnormal process loss. It is controllable and avoidable. When actual loss in the process is greater than the estimated normal loss, it is a case of abnormal loss. It may also be determined by comparing actual output with expected or normal output. If actual output is les than the normal output, the difference is abnormal loss.

Value of Abnormal loss = Normal cost of normal output x Units of Abnormal loss Normal output

Normal cost of normal output = Total expenditure (i.e., total debit of process A/c) – Sale Proceeds of scrap (i.e. Value of normal loss)

Normal output = Input - Units of normal loss

#### Abnormal Gain (or Abnormal Effective)

Sometimes actual loss or wastage in a process is less than expected normal loss. In this case the difference between actual loss and expected loss is known as abnormal gain or abnormal effective. It is the excess of actual production over normal output.

Abnormal gain is valued in the same manner as abnormal loss. The value of abnormal gain is debited to process A/c and credited to abnormal gain A/c. the value of scrap is debited to abnormal gain A/c and credited to normal loss A/c. finally abnormal loss A/c is closed by transferring the credit balance to Costing P&L A/c.

Value of Abnormal Gain = Normal cost of normal output x Units of Abnormal gain Normal output

Normal cost of normal output = Total expenditure—Sale Proceeds of scrap

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Normal output = Input - Units of normal loss

Units of Abnormal gain = Normal loss- Actual loss

Or

= Actual output - Normal output

# **Equivalent Production**

Equivalent production represents the production of a process in terms of completed units. In other words, it means converting the incomplete units into its equivalent of completed units. It is also known as effective production. For calculating equivalent production, work-in-progress needs to be inspected. Then an estimate is made of the degree of completion, usually on a percentage basis.

# Steps and procedure of computation of Equivalent Production

1. Ascertain Equivalent Production in respect of opening work-in-progress, if any. In this case the

Equivalent Production is computed by taking into consideration the percentage of work required to finish now in the process. The following formula is used.

Opening WIP (Units) x % of work needed to complete.

- 2. Find the units introduced and completed and add this to (1). It is calculated as follows: Units completed and transferred Opening work-in-progress.
- 3. Convert the equivalent production of closing work-in-progress and add to the above. The formula is:

Closing work-in-progress (units) x% of work completed.

- 4. Obtain the total Equivalent Production terms of materials, labour and overhead separately (if degree of completion is different). For this, 'Statement of Equivalent Production' is prepared.
- 5. Find out the net process costs, element wise- materials, labour and overheads.
- 6. Ascertain the cost per unit of Equivalent Production for each element of cost separately.

Material cost per unit= Material cost

Equivalent Production in respect of materials

Labour cost per unit =Labour cost

Equivalent Production in respect of labour

Overhead cost per unit =Overhead cost

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Equivalent Production in respect of overhead

For this purpose 'Statement of Cost is prepared'

7. Find out the value of opening work-in-progress, finished units and closing work-in-progress. The formula is:

Equivalent Production in respect of materials x Material cost per unit

Equivalent Production in respect of labour x Labour cost per unit

Equivalent Production in respect of overhead x Overhead cost per unit

#### **Inter Process Profits:**

In process costing, the usual practice is to transfer the output of one process to another and finally to finished stock at cost price. In this method of transfer, process accounts will not reveal any profit or loss. But sometimes, the transfer is made at transfer price or market price.

This method is adopted in order to measure the efficiency or inefficiency of individual's process.

When market price cannot be ascertained, certain percentage of profit margin is added to the cost of processing in order to arrive at the transfer price. Consequently, each process account reveals a profit and this profit is known as 'inter process profit'.

# **Advantages of Accounting for Inter Process Profits:**

- (a) Inter process profits enable to measure the efficiency of each process.
- (b) Comparison of costs with market price at each stage assist management to take 'make or buy' decisions.
- (c) The efficiency of or inefficiency of one process. In other words, each process can be assessed separately on that account.

# **Adjustment for Inter Process Profits:**

When the output of one process is transferred to another and finally to finished stock account at transfer price (cost plus estimated profit margin), the closing inventories if any will be valued at transfer price. Such inventories will include unrealized profits. Such profits should be adjusted for purposes of year-end financial reporting.

Otherwise, it will amount to earning profit by trading within the organization. Hence, necessary adjustments are made in the values of closing inventories by means of creating reserves or provision for unrealized profits. Total profit less provision for unrealized profits would amount to profits earned on sale of finished stock. The closing inventories will be shown in the balance sheet at cost

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i.e., values of inventory at transfer price less provision for unrealized profits.

# Computation of provision for unrealized profits:

Formula Cost of inventory = cost/total X Closing inventory

Provision for unrealized profits = Value of closing inventory – Cost

#### **Illustration 1:**

A product passes through two processes A and B. Output of A is transferred to B at cost plus 25% profit and from B to finished stock at cost plus 25% profit. There were no work in progress in both processes and opening stock of finished goods at the end of the period.

### Additional information available is as follows:

Closing stock of finished goods was valued at Rs.45,000 and the balance was sold for Rs. 1,50,000. Prepare Process Accounts and Finished Stock Account.

#### JOINT PRODUCTS

When two or more products are produced simultaneously from the use of a single raw material which is equally important. Such a product can be a joint product which is more important if produced from the same raw material. This product is also called as Main Product. On the other hand, if the products are not of the same importance called as "By-Products." For example, crude oil is the main product which can be processed in to petrol, kerosene, oil tar etc. as by-products.

#### **Features of Joint Products**

The following are the important features of joint products:

- (1) Joint products are produced from the sample raw materials.
- (2) They are produced from the common features of manufacturing process.
- (3) Joint products are of equal importance and value.
- (4) They may require further processing after their split off or point of separation.

# **Objectives of Joint Product Costing**

The following are the important objectives of joint product costing:

- (1) To facilitate product costing of inventory valuation and income determination.
- (2) To ascertain the profitability of each product.
- (3) To facilitate to make or buy decisions.
- (4) To provide information to fix the prices of product.

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(5) To evaluate the change of product mix and output variations.

- (6) To determine cost per unit, cost allocation and cost ascertainment.
- (7) To ensure effective cost control.

# **Methods of Apportionment of Joint Products**

The following are the important methods commonly used for apportionment of joint costs upto the point of separation.

- (1) Average Unit Cost Method
- (2) Physical Unit Method
- (3) Survey Method
- (4) Contribution Margin Method
- (5) Standard Cost Method
- (6) Market Value Method
- (1) Average Unit Cost Method: Under this method, average cost per unit of the finished product is calculated by the total joint costs up to the point of separation is divided by the total production of all the products or outputs. This method is very simple and conveniently applicable where the resultant products can be expressed in common units.
- (2) Physical Unit Method: Under this method, the joint costs are allocated or apportioned to joint products on the basis of relative physical units of output of each joint product till split-off occurs. These physical units refer to weight or measure such as pounds, tonnes, gallons, bales, volume etc. This method is suitable where the joint products will be measurable in the same units. This method cannot be applied when joint products consist of different types of units like liquids and solids.
- (3) Survey Method: Survey Method is also termed as "Points Value Method." In this method, joint costs are allocated on the basis of percentage or points value is assigned to each products according to their relative importance. This method is also taken into various relevant factors such as volume, mixtures, selling price, technical engineering and marketing processes. The ratio of joint costs can be calculated by physical quantities of each products use multiplied with the weightage points.
- (4) Contribution Margin Method: This method is also called as "Gross Margin Method." According to this method joint costs are allocated or apportioned as fixed cost and variable cost incurred at the point of separation. Joint fixed costs are apportioned on the basis of contribution of each product whereas variable portion of joint costs are apportioned according to the volume of units produced.

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(5) Standard Cost Method: Under this method, joint costs are apportioned on the basis of standard costs. For this, standard costs are determined in advance for a joint products based on past experience, technical aspects, operational efficiency and cost factors of each products etc.

(6) Market Value Method: This method is also termed as "Relative Sales Value Method." According to this method, the number of units of each product manufactured is multiplied by the product's selling price to obtain the sales value of production.

#### **BY-PRODUCTS**

The term by-product is also known as "Minor Product." It refers to any product of comparatively less value that is incidentally manufactured along with the main products. In other words, if the products produced are not as of equal importance, then the products of significantly low value are known as "by-products." Accordingly, they are jointly produced with other main products and remain inseparable up to the point of split off or point of separation.

Accounting Treatment or Method of Valuation of By-products The object of valuation of by-products cost accounting is to assign a portion of the total costs to each by-products. This is important to calculate the unit product cost and prepare the profit and loss account and balance sheet. Following are the important methods employed in this connection:

- (1) Non-Cost Methods or Sales Value Methods:
- (a) Other Income Method.
- (b) Adding Sales Value to Total Cost Method.
- (c) Crediting to Sales Value Less Selling and Distribution Expenses Method.
- (d) Expenses Cost Method.
- (2) Cost Methods:
- (a) Replacement Cost Method or Opportunity Cost Method
- (b) Standard Cost Method
- (c) Apportionment on Suitable Basis

#### (1) Non-Cost Method

This method is also known as "Sales Value Method." While in valuation of the by-products only sales value of by-products is taken in to account in accounting treatment of by-products they use anyone of the following non-cost methods: (a) Other Income Method: Under this method, when the

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sales value of the by-products is very low or negligible, it is treated as other income and same is credited to the profit and loss account. (b) Adding Sales Value to Total Cost Method: Under this method all the cost of joint products deducted from the combined sales proceeds of both joint products and main products. (c) Crediting to Sales Value Loss Selling and Distribution Expenses: Under this method, costs incurred relating to selling and distribution expenses of by-products are deducted from the sales value of by-product and the net sales value credited to the process account. (d) Reverse Cost Method: In this method, cost of by-product is determined by sales of the by-product deducted from the estimated profit and all costs incurred on by-products after split off point. This method also known as "crediting sales value less profit."

# (2) Cost Methods

Cost methods are useful to determine the cost of by-products when the apportion of the portion of joint costs incurred to by-products. The following are the important methods included under this categories. (a) Replacement Cost Method: This method is also called as "Opportunity Cost Method."

# **OPERATING COSTING (SERVICE COSTING)**

It is the costing procedure used for determining the cost of per unit of service rendered. It is a method of costing applied to undertaking which provides service rather than production of commodities. The services may be in the form of transport, supply service, welfare service, etc. There is a difference between operating costing and operation costing. Operating costing is a method of costing designed to find out the cost of operating or rendering a service. On the other hand, operation costing is a method of costing applied to determine the total cost and unit cost of each operation. Though service undertakings are of different types, but here we discuss only transport operating costing.

# **Transport costing:**

Transport industries include Air, Water, Rail and Road. They render services to the community at large. We have to give utmost care while selecting the cost unit. The cost unit of other forms operation costing is quite different from that of a service undertaking. The cost unit of a service organization is a composite unit. The important factors to be considered includes the number of passengers, tonnage carried, distance covered etc.

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#### **Classification of Costs:**

Operating costs of a transport undertaking comprising different items, which are classified under the following three groups.

- 1. **Standing or fixed charges**: These charges are incurred in spite of the kilometers run. It is fixed in nature. E.g. Insurance, Motor vehicle tax, license fee, rent, salary of operating manager etc.
- 2. **Maintenance charges**: It includes semi variable expenses Eg. Tyres and tubes, repairs and paintings etc.
- 3. **Operating and running charges**: These charges vary more or less in direct proportion to kilometres. All the variable charges of running vehicles are included in this group. Generally it includes, petrol, oil,, grease etc., wages of driver, attendant if payment is related

to time or distance of trip etc.

In the place of the above classification, all expenses can be divided into two – fixed cost and variable costs. Here, both maintenance charges and running charges are considered as variable charges.

#### **Selection of Unit:**

In transport costing, a composite unit such as passenger mile or passenger kilometre or tone kilometre is often selected. Such unit takes into account both the number of passengers or weight of goods carried and distance run.

# Absolute passenger or commercial passenger/ tone km:

It is calculated by multiplying every part of distance travelled/covered with either weight carried or passenger carried.. After getting the product of each journey we add all the products. The total is absolute ton/quintal km

In the case of goods transport the equation is

Distance of each part of journey x weight carried In the case of passenger transport, the following formula is used

Distance of each part of journey x No. of passengers taken for the same distance

#### **Commercial method:**

The following steps are used to find out the commercial tone km

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- a. Find out average trip load
- b. Find out total distance of journey
- c. Multiply a and b, the resultant figure is commercial tone km

## **OPERATING COST SHEET**

**Particulars** 

**Total cost** 

Cost per unit

# A. Fixed or standing charges

Garage rent

License fee

Insurance

Motor vehicle tax

Interest on capital

Supervision

Office establishment

Administrative overheads Salary

of foreman, manager etc

### **Total**

# **B.** Maintenance charges:

Repairs and renewals Tyres and tubes

**Paintings** 

Overhauling

Cleaning

Gas and electric charges

Spare parts and accessories

#### **Total**

# C. Operating charges:

Petrol

Engine oil

Lubricating oil, grease etc

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Wages of operators

Depreciation

Salaries of running staff

Water

#### **Total**

# **Calculation of Depreciation:**

If the rate of depreciation is not given, depreciation is calculated as

follows: Depreciation =Cost- scrap/ Life in years

# POSSIBLE QUESTIONS

#### Part - B

11. The following was the expenditure on a contract for Rs. 12,00,000 commenced in January.

Rs.

Material 2,40,000

Wages 3,28,000

Plant 40,000

Overheads 17,200

Cash received on account of the contract upto 31stDecember was Rs. 4,80,000 being 80% of the work certified. The value of materials in hand was Rs. 20,000. The plant had undergone 20% depreciation. Prepare contract Account.

- 12. Explain Normal Loss, Abnormal loss and abnormal gain and state how they should be dealt with in process cost accounts.
- 13. A product passes through two distinct processes, A and B, and thereafter to finished stock. From the following information, you are required to prepare Process Cost Accounts.

	Process A	Process B
Materials consumed	(Rs.)12,000	6,000
Direct labour	(Rs.)14,000	8,000

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Input in Process 'A' (Units) 10,000

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Input in Process 'A' (Value) Rs. 10,000

\_

Output 9,400 Units 8,300 Units

Normal wastage 5% 10%

Value of normal wastage (per 100 units)

Rs.8

Rs.10

14. Input 3,800 units; output 3,000 units; closing work in progress 800 units.

Degree of completion

Process Costs

Materials 80% Rs. 7,280

Labour 70% Rs. 7,120

Overheads 70% Rs. 7,120

Find out (a) Equivalent production (b) Cost per unit of equivalent production and (c)

Prepare the process A account assuming that there is no opening work in progress and process loss.

QUESTION	OPTION1	OPTION2	OPTION3	OPTION4	ANSWER
UNIT - IV					
costing to findout the cost of a	Process			Contract	Process
product at a each stage or process	costing	Job costing	Unit costing	costing	costing
the passes			Raw		_
through the different stages of a	Goods	Product	material	Sales	Raw material
of the product at	Cost	Expenses	Unit costing	Income	Cost
each process and debited to the	Overhead	Direct wages	Direct labour	wages	Overheads
dividing the total process cost by	Taotal cost	expenses	Cost per unit	sales cost	Cost per unit
product is the sum of all costs	Taotal cost	expenses	Cost per unit	sales cost	<b>Total Cost</b>
production is carried on in	costing	Job costing	Unit costing	costing	costing
arecomputed periodcally for each	costing	Job costing	Unit costing	costing	costing
from one process to another	costing	Job costing	Unit costing	costing	costing
work is compartively less	costing	Job costing	Unit costing	costing	costing
loss which is unavoidble in a	Normal	Abnormal	Controllable	controllable	Normal
loss units in credited to process	Usable	Realisble	Unusable	controllable	Realisble
a part of	Sales value	production	Cost of sales	unit	production
avoidabe loss	Loss	Normal Loss	Loss	e loss	Loss
advance	Loss	Normal Loss	Loss	e loss	Loss
actual loss is more thanthe	Loss	Normal Loss	Loss	Loss	Loss
included in the	Sales value	production	Cost of sales	unit	production
actual output is higher than the	Gain	Gain	Gain	Less Gain	Gain
of cost of	usable	recovery	wastage	useful	recovery
difference betweentransfer price	unit price	cost price	price	price	Unit price
carried on against specific orders	costing	Job costing	Unit costing	costing	job costing
each job	cost	price	unit	sales	Cost
when there is	low	high	surplus	defecit	surplus
process costing facilitates correct	stock	high	surplus	defecit	stock
cost	Future cost	historical cost	estimate cost	prime cost	cost
cost of an	allotment	of cost	cost	n of cost	t of cost
for which costs are	ascertined	accumulated	collected	changed	accumulated
and of each job	losss	profit	loss	cost	profit
adopted in printing press	costing	Job costing	Unit costing	costing	job costing
job costing is also known as	costing	Job costing	Unit costing	costing	costing
known as	costing	Job costing	Unit costing	costing	job costing
production is always against the	costing	Job costing	Unit costing	costing	job costing
costing helps in	making	Planning	Cost control	Reduction	Planning
help in preparation of	Report	Budget	Cost Data	Price	Budget
cost unit	unit price	process	Contract	Unit	Contract
duration	Long	Short	medium	very long	Long
adopted in construction of bridges	costing	Job costing	Unit costing	costing	costing
are usually	High	Small	Medium	Very Low	Small
installments depending on the	costing	Job costing	Unit costing	costing	Costing

ofcosting	order	Job costing	Unit costing	costing	order costing
prepared for each contract	Contract	Unit	Job	Order	Contract
constitute a major portion of the	Direct	Indirect	Fixed	Variable	Direct
constitue a small portion of the	Direct	Indirect	Fixed	Variable	In direct
the contract is to	Debited	Credited	Enetered	Fixed	Debited
contract is also to the	Debited	Credited	Enetered	Fixed	Debited
directly charged to contract	expenses	Expenses	Expenses	Expenses	Expenses
long time for completion and	Large	Small	Medium	Very High	Large
contractor after the expiry of a	usable	recovery	wastage	useful	recovery
reserve	profit	recovery	wastage	useful	Profit
installments depending on the	costing	Job costing	Unit costing	costing	Costing
contract in which the contractee	Cost +	Esclation	Retention	Unit	Cost +
agrees to pay the cost of work	contract	clause	money	Contract	contract
contracts is assure a fixed	contract	clause	money	Contract	contract
agreement	contract	clause	money	Contract	clause
secondary product obtained during				Related	
the course of manufacturing the	Substitute	Joint	By product	product	By product
of is considerd as				Related	
zero for the purpose of balance	Substitute	Joint	By product	product	By product
incurrd for setting the by products	distribution	Production	purchase	material	distribution
products are valued at the current	nt method	method	ent Method	Method	Method
products are valued at standard	nt method	method	ent Method	Method	cost
or more prodcucts of equal				Related	Joint
importance which are produced	Substitute	Joint	By product	product	Product
and market utility	Substitute	Joint	By product	product	Product

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## Unit V

**Book Keeping in Cost Accounting** – Integral and Non Integral Systems – Reconciliation of cost and Financial Accounting.

# **Meaning of Integral System:**

Integral or Integrated system is a system of accounting under which only one set of account books is maintained to record both the Cost and Financial transactions. The system implies the merger of both cost and financial accounts in one set of books.

The two sets of account books merge into a composite system. CIMA, London defines Integral system as a system in which the financial and cost accounts are interlocked to ensure that all relevant expenditure is absorbed into the cost accounts.

# **Advantages of Integral Accounting:**

# Following are the main advantages of integral accounting:

- 1. There is no need to reconcile the profit ascertained by the cost accounts with that of financial accounts since only one profit and loss account is prepared from the information recorded in the cost accounts.
- 2. There is no duplication of recording and effort as in non-integral system and as such this system is simple and economical.
- 3. This system tends to co-ordinate the functions of different sections of the Accounts Department since all efforts are integrated and directed towards achievement of one aim that is providing a high level of efficiency.
- 4. The accounting procedures can be simplified and the system can be centralised with the object of achieving a greater control over the organisation.
- 5. The system creates conditions which are eminently suitable for the introduction of mechanised accounting.
- 6. There is no possibility of overlooking any expense under the system.

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7. As cost accounts are posted straight from the books of original entry, there is no delay in obtaining the data.

8. There is automatic check on the correctness of the cost data. It ensures that all legitimate

expenditure is included in Cost Accounts and reliable and proved data is provided to the

management for its decisions.

9. Integrated accounting widens the outlook of the accountant and his staff and they can take broader

view of things.

10. From psychological point of view, it shows the complimentary status of cost and financial

accountant which need to be considered as separate watertight compartments.

**Principles of an Integral Accounting System** 

1. The degree of integration must be determined. Some undertakings find it satisfactory merely to

integrate upto the stage of prime cost or factory cost while other concerns integrate the whole of the

records in which cost and financial accounts cannot be distinguished.

2. The degree of integration will determine the classification of expenditure. The expenditure is

classified here according to function as office expenses, selling expenses etc. and not according to

nature. However, control accounts are maintained for each element of cost. A suitable coding system

should be available to serve the accounting purposes of financial and cost accounts.

3. Full details of items posted to the control accounts are supplied to the cost office at convenient

intervals. This information is then dealt with by the cost office in accordance with the system of

costing in force.

4. The amount of detail recorded in the ledger is usually kept to a minimum, full information

regarding each department or process being contained in tabulators prepared by the cost office.

These tabulations are sometimes referred to as third entries to emphasise that they are not part of

double entry system.

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5. For preparation of interim accounts, there must be an agreed routine for treatment for accruals, prepaid expenses and other necessary adjustments.

- 6. There should be perfect co-ordination between the staff responsible for the financial and cost aspects to ensure an efficient processing of accounting documents.
- 7. A suitable coding system must be made available so as to serve the accounting purposes of financial and cost accounts.

# **Journal Entries:**

Following journal entries are passed for important transactions under integral accounting system:



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#### **Transactions**

1. Materials purchased for stock

Materials purchased for jobs

 Materials issued—Direct Materials
 Materials issued—Indirect Materials

 Material returned from shop floor

 Material returned to supplier

 Material transferred from job to job

Salary and wages to be paid

 Salary and wages allocated—Direct Indirect

8. Direct Expenses

Overheads incurred

 Overheads recovered—Production Administration Selling and Distribution

11. Overheads on Work-in-Progress

12. Finished Goods

Finished Goods Sold :
 (i) Factory Cost

(ii) Sales Value

14. Sales returns

15. Capital Work

16. Repair work

Special jobs completed and billed at :
 (i) Factory Cost

(ii) Selling Price

 Under-absorption of Overheads

 Over-absorption of Overheads

Profit

#### Entry

Debit Stores Ledger Control A/c
Credit Sundry Creditors or Cash A/c
Debit Work-in-Progress Control A/c
Credit Sundry Creditors or Cash A/c
Debit Work-in-Progress Control A/c
Credit Store Ledger Control A/c
Debit Overhead Control A/c
Credit Stores Ledger Control A/c
Debit Stores Ledger Control A/c
Credit Work-in-Progress Control A/c
Debit Stores Ledger Control A/c
Credit Work-in-Progress Control A/c
Debit Sundry Creditors A/c
Credit Stores Ledger Control A/c

No entry Debit Wages Control A/c Credit Wages Payable A/c

Debit Work-in-Progress Control A/c
Debit Overhead Control A/c
Credit Wages Control A/c
Debit Work-in-Progress Control A/c
Credit Sundry Creditors or Cash A/c
Debit Overhead Control A/c
Credit Sundry Creditors or Cash A/c
Debit Work-in-Progress Control A/c
Debit Finished Goods Control A/c
Debit Cost of Sales A/c
Credit Overhead Control A/c
Debit Work-in-Progress Control A/c
Credit Overhead Control A/c
Debit Finished Stock Ledger Control A/c
Credit Work-in-Progress Control A/c
Credit Work-in-Progress Control A/c

Debit Cost of Sales A/c
Credit Finished Stock Ledger Control A/c
Debit Sundry Debtors A/c
Credit Cost of Sales A/c
Debit Cost of Sales A/c
Credit Sundry Debtors A/c
Debit Sundry Assets A/c
Credit Work-in-Progress Control A/c
Debit Overhead Control A/c
Credit Work-in-Progress Control A/c

Debit Cost of Sales A/c
Credit Work-in-Progress Control A/c
Debit Sundry Debtors A/c
Credit Cost of Sales A/c
Debit Profit and Loss A/c
Credit Overhead Control A/c
Debit Overhead Control A/c
Credit Profit and Loss A/c
No entry

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Non Integrated Accounting

In a non-integrated accounting system two different sets of accounting records are maintained for Financial Accounting and Cost Accounting purposes. This system is also called as 'cost ledger accounting system'. The Cost Accounts are also maintained in double entry bookkeeping as in the case of Financial Accounts.

# The non-integrated system of accounting is followed in the following situations when:

- (a) Principal ledgers are to be maintained in Costing Department,
- (b) Principal accounts are to be maintained, and
- (c) Journal entries are to be passed in Cost Accounts.

The main object of Cost Accounting is to analyze costs by functions i.e., jobs, processes, services and specific overhead categories such as administration, selling or distribution. The special ledger accounts necessary for this purpose depend upon the extent to which analysis is to be made. The maintenance of Cost Accounts under non-integrated system show the importance of Cost Accounting in the concern.

When a separate set of Cost Accounts are maintained, it must be ensured that it is properly linked to the Financial Accounts so as to facilitate easy reconciliation.

It is the responsibility of Cost Accountant in maintenance of Cost Accounting records in non-integrated accounting system, and the Financial Accountant will maintain the Financial Accounting records. In Cost Accounts no personal accounts are kept but the transactions affecting the nominal accounts are recorded in both accounts.

# **Principal Ledgers and Control Accounts:**

The principal ledgers and control accounts maintained by Costing Department under non-integrated accounting system are explained below:

#### **Principal Ledgers:**

#### (1) Cost Ledger:

This ledger consists of all impersonal accounts and is made self-balancing by maintaining a control account for each of the other three ledgers explained below.

# (2) Stores Ledger:

This ledger consists all stores accounts. Individual accounts are maintained for each item of store.

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## (3) Work-in-Progress Ledger:

In this ledger cost of materials, wages and overheads of each job undertaken is posted irrespective of job account maintained in this ledger.

# (4) Finished Goods Ledger:

In this ledger accounts of completely finished products, jobs are contained. Individual accounts are maintained for each type of finished job, product etc.

## **Principal Control Account:**

# (1) General Ledger Adjustment (Control) A/c:

This account is essential to make the Cost Ledger 'self-balancing'. All transactions of income and expenditure which originate in the Financial Accounts must be entered in the ledger for eventual transfer to Cost Accounts. The balance in this account will always be equal to the total of all the balances of the impersonal accounts.

# (2) Stores Ledger Control A/c:

This account is debited with all purchases of materials for the stores and credited with all issues of materials.

# (3) Work-in-Progress Ledger Control A/c:

It consists of all direct materials, direct wages, direct expenses, special purchases and expenses. Production overhead are debited to this account regarding total work-in-progress of different jobs at any time.

#### (4) Finished Goods Ledger Control A/c:

The total value of finished goods in stock is represented in this account. On sale of goods, the cost of such goods is credited to this account and debited to Cost of Sales Account.

# **Reconciliation of Cost and Financial Accounts**

Reconciliation of Cost and Financial Accounts is process to find all the reasons behind disagreement in profit which is calculated as per cost accounts and as per financial accounts. There are lots of items which are shown in the profit and loss account only when we make it as per financial accounting rules. There are lots of items which are shown in costing profit and loss account only when we calculate profit as per cost accounting.

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Suppose, we have taken the profit or loss as per financial accounts, we adjust it as per cost accounts. In the end of adjustments, we see same profit as per cost accounts. If we have taken profit as per cost account, we have to adjust items as per financial accounts. For this purpose, we make reconciliation Statement.

# (a) Items included only in financial accounts

There are number of items which appear only in financial accounts, and not in cost accounts, since they neither do nor relate to the manufacturing activities, such as,

- Purely financial charges, reducing financial profit
  - Losses on capital assets
  - o Stamp duty and expenses on issue and transfer of stock, shares and bonds
  - Loss on investments.
  - o Discount on debentures, bonds, etc.
  - o Fines and penalties,
  - Interest on bank loans.
- Purely financial income, increasing financial profit
  - Rent received
  - Profit on sale of assets
  - Share transfer fee
  - Share premium
  - o Interest on investment, bank deposits.
    - Dividends received.
- Appropriation of profit donations and charities.

# (b) Items included only in the cost accounts

There are very few items which appear in cost accounts, but not in financial accounts. Because, all expenditure incurred, whether for cash or credit, passes though the financial accounts, and only relevant expenses are incorporated in cost accounts. Hence, only item which can appear in cost accounts but not in financial accounts is a notional charge, such as, (i) interest on capital, which is not paid but included in cost accounts to show the notional cost of employing capital, or (ii) rent i.e. charging a notional rent of premises owned by the proprietor.

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- (c) Items accounted for differently in cost accounting and financial accounting
- Overhead In cost accounts, overheads are applied to cost units at predetermined rates based on estimates, and the amount recovered may differ from actual expenses incurred. If such under-or over-recovery of overheads are not charged off to costing profit and loss account, the profits on two sets of books will differ.
- Stock valuation In financial accounts, stock is valued at lower of cost or market value. In cost accounts, stock is valued at cost adoption one of the methods, such as FIFO, LIFO, average etc., which is suitable to the unit. Thus, there may be difference in stock valuation, which will reflect difference in profit between the two sets of books.
- **Depreciation** If different basis is adopted for charging depreciation in cost accounts as compared to financial accounts, the profits will vary.



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# Reconciliation of profit and it methods

#### Reconciliation Statement

Profit as per Cost Books:

 Overheads and expenses overcharged in cost books (or undercharged in financial books).

- 2. Incomes shown only in financial books.
- 3. Opening stock over-valued in cost books.
- Closing stock under-valued in cost books.
- Depreciation overcharged in cost books.
- Less: 1. Expenses undercharged in cost books.
  - 2. Expenses shown in financial books only.
  - 3. Undervaluation of opening stock in cost books.
  - 4. Overvaluation of closing stock in cost books.
  - Depreciation undercharged in cost books.

Profit as per Financial Books.

# Memorandum Reconciliation Account

- To Overhead undercharged in cost books
- " Exps. shown in financial books only
- " Undervaluation of opening stock in cost in cost books
- " Overvaluation of opening stock in cost books
- " Dep. undercharged in cost books
- " Profit as per financial books.

- By Profit as per cost books
- " Overheads overcharged in cost books
- " Income shown only in Financial books
- " Opening stock over valued in cost
- " Closing stock under valued in cost
- " Dep. overcharged in cost

Possible Questions:

7

Class: III B.Com PA Course Name: Applied Cost Accounting

Course Code: 16PAU503A Unit V Semester: V Year: 2016-19 Batch

Illustration 1: From the following particulars prepare: (1) A Statement of cost of manufacturing for the year 2003. (2) A statement of profit as per Cost Account. (3) Profit and Loss Account in the financial books and (4) A Statement Reconciling the profits shown by above (2) and (3).

	₹.
Opening Stock of Raw Materials	1,40,000
Opening Stock of Finished Articles	2,80,000
Purchase of Raw Materials	8,50,000
Stock of Raw Materials at end	2,00,000
Stock of finished Articles at end	50,000
Wages	3,50,000

Calculate Factory on cost at 20% on Wages and Office on cost at 75% on Factory on cost. Actual Factory expenses amounted to ₹. 72,000 and actual Office Expenses amounted to ₹. 50,000. The Selling Price was fixed at 20% above Cost Price.

Solution:

#### (1) Statement of Cost

	Dr.	Cr.
Raw Materials Consumed:		₹.
Opening Stock of Raw Materials	1,40,000	
Add: Purchases of Raw Materials	8,50,000	
	9,90,000	
Less: Closing Stock of Raw Materials	2,20,000	
		7,90,000
Wages		3,50,000
Prime Cost		11,40,000
Factory On Cost (20% of Wages)	1 1	70,000
Factory Cost	1	12,10,000
Office On Cost (75% of Factory on cost)	1 1	52,500
Total Cost		12,62,500

#### (2) Statement of Profit as per Cost Accounts

	7
Total Cost	12,62,500
Add: Opening Stock of Finished articles	2,80,000
	15,42,500
Less: Closing Stock of Finished articles	50,000
Cost of Articles Sold	14,92,500
Profit: 20% of Cost	2,98,500
Selling Price	17,91,000

Class: III B.Com PA Course Name: Applied Cost Accounting

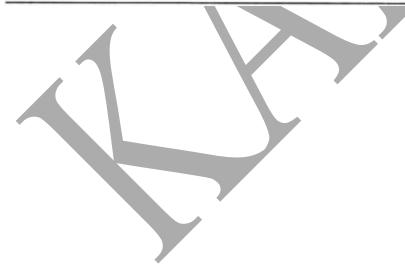
Course Code: 16PAU503A Unit V Semester: V Year: 2016-19 Batch

2		(3) Profit L	oss A	ccount	
		₹.			₹.
To	Opening Stock:		By	Sales	17,91,000
	Raw Materials	1,40,000	"	Closing Stocks:	53 22
	Finsihed Articles	2,80,000		Raw Materials	2,00,000
**	Purchases	8,50,000		Finished Articles	50,000
**	Wages	3,50,000			201,027,020
**	Factory Expenses	72,000			
*	Office Expenses	50,000			
**	Profit	2,99,000			
		20,41,000			20,41,000

Analysis: The difference between the two profits is due to (1) an undercharge in Cost Account of ₹. 2,000 in respect of Factory on cost and (2) an overcharge in Cost Account of ₹. 2,500 in respect of Office on cost.

## Reconciliation Statement

	₹.
Profit as per Cost Account	2,98,500
Less: Factory on cost undercharged (72,000 - 70,000)	2,000
	2,96,500
Add: Office on cost overcharged (52,500 - 50,000)	2,500
Profit as per P & L: A/c	2,99,000



Class: III B.Com PA Course Name: Applied Cost Accounting

Course Code: 16PAU503A Unit V Semester: V Year: 2016-19 Batch

Illustration 2: The Profit and Loss Account of a company for the year ended 31st Dec., 2000 is as follows:

		7.		₹.
To	Materials Consumed	60,000	By Sales	1,50,000
**	Carriage Inwards	1,000		10 12
**	Direct Wages	40,000		
••	Works Expenses	10,000		
**	Administration Exps.	5,000		
**	Selling and Distribution Exps.	6,000		
**	Debenture Interest	2,000		
**	Profit	26,000		
		1,50,000		1,50,000

The profit shown by the Cost Accounts for the year is ₹. 28,600; upon a detailed comparison of the two sets of accounts, it is found that:

(a) The amount charged in the Cost Accounts in respect of overhead charges are as follows:

Works overhead charges
Office overhead charges

Selling and Distributing Exps.

₹. 5,100

₹. 9,500

(b) No charge has been made in the Cost Accounts in respect of debenture interest. You are required to reconcile the profits shown by the two sets accounts.

Solution:

# Reconciliation Statement

	₹.
Profit as per Cost Account	28,600
Less: Works overhead charges undercharged in	-
Cost Accounts (10,000 - 9,500)	500
	28,100
Add: Office overheads overcharged in Cost Account (5,100 - 5,000)	100
	28,200
Less: Selling and Distributing Exps. undercharged in Cost Accounts	- 63
(6,000 - 5,800)	200
	28,000
Less: Debenture interest not charged in Cost Accounts	2,000
Profit as per Profit Loss Account	26,000

Class: III B.Com PA Course Name: Applied Cost Accounting

Course Code: 16PAU503A Unit V Semester: V Year: 2016-19 Batch

Illustration 3: A cycle manufacturing company manufactures three types of cycles namely, Model A, Model B, and Model C. The practice followed by the company is to charge material and wages at actual cost works overhead at 75%, 80% and 90% of wages cost of Models A, B and C respectively and office on cost is charged at 20%, 25% and 30% of the works cost of these respective models. The company's accounts provide you with the following information:

	Model A	Model B	Model C
	₹.	₹.	₹.
Materials per unit	300	410	600
Wages per unit	200	350	300
Selling price per unit	800	1,350	1,550

You are further provided an information that there is no cycle in the stock and number of cycles manufactured were of Model A 200, Model B 300 and Model C 100.

Prepare the relevant statement showing the profit per units, if actual works on cost happened to be  $\stackrel{?}{\underset{?}{|}}$  1,50,000 (on A  $\stackrel{?}{\underset{?}{|}}$  36,000, on B  $\stackrel{?}{\underset{?}{|}}$  90,000 on C  $\stackrel{?}{\underset{?}{|}}$  24,000) and office overheads  $\stackrel{?}{\underset{?}{|}}$  1,42,000 (on A  $\stackrel{?}{\underset{?}{|}}$  30,000, on B  $\stackrel{?}{\underset{?}{|}}$  70,000 and C  $\stackrel{?}{\underset{?}{|}}$  42,000).

Solution:

#### Cost Sheet Showing Cost and Profit

	Model A (200 units)		Model B (300 units)		Model C (100 units)		Total
	Per unit	Total ₹.	Per unit	Total ₹.	Per unit	Total ₹.	₹
Materials Wages	300 200	60,000 40,000	410 350	1,23,000 1,05,000	600 300	60,000 30,000	2,43,000 1,75,000
Prime Cost Works on Cost as directed (75%, 80%, 90% of wages)	500	1,00,000 30,000	760 280	2,28,000	900	90,000	1,41.000
Works Cost Office overhead as given (20%, 25% and 30% of works cost)	650	1,30,000	1,040	3,12,000 78,000	1,170	1,17,000 35,100	1,39,100
Total Cost Profit	780 20	1,56.000 4,000	1,300 50	3,90,000 15,000	1,521 29	1,52,100 2,900	6,98,100 21,900
Selling Price	800	1,60,000	1,350	4,05,000	1,550	1,55,000	7,20,000



Class: III B.Com PA Course Name: Applied Cost Accounting

Course Code: 16PAU503A Unit V Semester: V Year: 2016-19 Batch

#### Trading and Profit and Loss Account

	7		7
To Materials	2,43,000	By Sales	7,20,000
To Wages	1,75,000	TO DESTRUCTOR	120520000000
To Work Exps.1	1,50,000		
To Office Exps. <sup>2</sup>	1,42,000		
To Net Profit	10,000		
	7,20,000		7,20,000

- 1. Given in the question (36,000 + 90,000 + 24,000)
- 2. Given in the question (30,000 + 70,000 + 42,000)

#### Reconciliation Statement

					₹.
Profits as per Cos	st Accounts				21,900
Add: Works on C	ost over-recov	ered	27,000		
on mod	lel 'C'		24,000	3,000	
" Office on cost	over-recovered	1	78,000		
on model 'B'		70,000	8,000	11,000	
			0.0 (20) (40)	5000000	32,900
Less: Works over	heads under-re	covered on			
Models	A	В		1	
	30,000	90,000			
	30,000	84,000		12,000	
	6,000	6,000		1000	
Less: Office over	heads under-re	covered on			
Models	A	В		- 1	
	30,000	42,000			
	26,000	35,100		10,900	22,900
	4,000	6,900		10000000000	
Profit as per Prof	fit and Loss A	c			10,000

Class: III B.Com PA Course Name: Applied Cost Accounting

Course Code: 16PAU503A Unit V Semester: V Year: 2016-19 Batch

Illustration 4: The net profit of the Kamta Manufacturing Co. Ltd. appeared at ₹. 64,377 as per the financial records for the year ended 31st March, 2003. The Cost Books, however, showed a net profit of ₹. 86,200 for the same period. A scrutiny of the figures from both the sets of accounts revealed the following facts:

	₹.
Works Overheads under-recovered in Costs	1,560
Administrative overheads recovered excess in Costs	850
Depreciation charged in Financial Accounts	5,600
Depreciation recovered in Costs	6,250
Interest on investments not included in cost	4,000
Loss due to obsolescence charged in Financial A/cs	2,850
Income-tax provided in Financial Accounts	20,150
Bank interest and transfer fee in Financial Books	375
Stores Adjustment credited in Financial Books	237
Loss due to depreciation in stock charged in Financial Account	3,375

Prepare a statement showing the reconciliation of profit between Cost Accounts and Financial Account.

#### Solution:

## Statement Reconciling the Figures of Profits

	₹.	7
Profit as per Cost Books		86,200
Add: Administrative Overhead recovered excess in cost	850	
Depreciation recovered excess in costs	650	
Interest on investments not included in costs	4,000	
Bank Interest and Transfer Fees	375	
Stores Adjustment not credited in costs	237	6,112
		92,312
Less: Work Overheads under-recovered in cost	1,560	
Depreciation in stock not charged in Cost Accounts	3,375	
Loss due to obsolescence	2,850	
Income-tax	20,150	27,935
Profit as per Financial Accounts		64,377

Class: III B.Com PA Course Name: Applied Cost Accounting

Course Code: 16PAU503A Unit V Semester: V Year: 2016-19 Batch

Illustration 5: Shobha Co. maintains separate Cost Books which disclosed a profit of ₹. 60,228 for the year ended March 31, 2010. The net profits disclosed by financial accounts amounted to ₹. 39,520. Upon enquiry, following information were obtained:

- (a) The company made a provision of ₹. 1,200 for bad debts;
- (b) Overheads charged to production in Cost Books were ₹. 15,000 whereas actual overhead expenses amounted to ₹. 13,864;
- (c) Directors were paid fees amounting to 7. 1,500;
- (d) Installation of a new plant involved an expenditure of ₹. 24,000 but it had not gone into production as yet; Depreciation @ 5% was provided on the cost of plant;
- (e) The company received interest on bank deposit amounting to ₹. 56; and
- (f) It paid Income-tax ₹. 18,000.

Prepare a Reconciliation Statement explaining the difference between the profits revealed by the Cost and Financial Books

Solution:

#### Reconciliation Statement

Profit as per Cost Books	₹.	₹.
Less: Expenses included in Financial Accounts only		60,228
Provision for bad debts	1,200	
Directors Fees	1,500	
Depreciation of new plant	1,200	
Income tax paid (appropriation of profits)	18,000	21,900
		38,328
Add: Interest of Bank deposits included in	1 1	
Financial A/c only.		56
		38,384
Add: Overhead charges overcharged in Cost A/c		
(15,000 - 13,864)		1,136
Profit as per Financial Accounts		39,520



Class: III B.Com PA **Course Name: Applied Cost Accounting** 

**Course Code: 16PAU503A** Unit V Semester: V Year: 2016-19 Batch

Illustration 6: The profit as per Cost Accounts is ₹. 82,650. The following points are found out on comparison between Cost Accounts and Financial Accounts:

	Cost Accounts	Financial Accounts
	₹.	₹.
(1) Opening Stock:		
Materials	16,300	16,500
Work-in-Progress	10,000	10,500
(2) Closing Stocks:		
Materials	18,000	17,200
Work-in-Progress	8,000	7,600
(2) D. 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60	

- (3) Dividend and interest received ₹. 400
- (4) Loss on sale of Motor Car ₹. 500.
- (5) ₹. 3,000 interest charged, not considered in financial accounts.
- (6) Goodwill ₹. 6,000 has been written off during the year.
- (7) Overheads incurred ₹. 60,600; but overheads recovered amounted to ₹. 63,000.

Find out profit as per Financial Accounts through (a) Memorandum Reconciliation Account and (b) Reconciliation Statement.

#### Solution:

#### (a) Memorandum Reconciliation Account

			₹		₹.
To	Diffence in opening Stocks of Materials and W.I.P. Financial Costing Difference in	27,000 26,300	700	By Profit as per Cost Accounts  " Dividend and Interest " Interest charged but not considered in Financial Accounts " Over recovery of	82,650 400 3,000
	Closing Stock of Materi W.I.P. Costing Financial	26,000 24,800	1,200	" Over-recovery of Overheads in Cost Accounts (₹. 63,000 - 60,600)	2,400
"	Loss on Sale of Motor Car		500		
"	Goodwill written off Profit as per Financial		6,000		
	Accounts		80,050		
			88,450		88,450

	Statement of Reconciliation		
	tit as per Cost Accounts	₹.	₹. 82,650
Add	: Dividend and Interest credited in	000000	
	Financial Accounts	400	
**	Interest charged in Cost Accounts (63,000 - 60,600)	3,000	
**	Over-recovery of Overheads in Cost Accounts (63,000 - 60,600)	2,400	5,800
			88,450
Less	: Under-valuation of Opening Stock of materials and	1	
	Work-in-Progres in Cost Account (₹. 27,000 - 26,300)	700	
**	Over valuation of Closing Stock of materials and	2000000	
	Work-in-Progress in Cost Account (₹. 26,000 - 24,800)	1,200	
77	Loss on sales of motor-car charged in	15000000	
	Financial Accounts but not in Cost Accounts	500	
22	Goodwill written off in Financial Accounts		
	but ignored in Cost Accounts	6,000	8,400
Profi	t as per Financial Accounts		80,050

Class: III B.Com PA Course Name: Applied Cost Accounting

Course Code: 16PAU503A Unit V Semester: V Year: 2016-19 Batch

Illustration 7: Given following is the summarised Trading and Profit and Loss Account of M/s Zivago Manufacturing Co. Ltd., for the year ended 31st Dec. 2009.

## Trading and Profit and Loss Account (For the year ending 31st Dec. 2009)

		₹.				₹.
To	Wages	75,500	Ву	Sales (6,000 units	)	3,00,000
**	Materials used	1,37,000	"	Finished stock (20		8,000
"	Factory expenses	41,500	**	Work-in-Progress:	State of the state	
**	Expenses on administration	19,120		Materials	3,200	
**	Selling expenses	22,500		Wages	1,800	
**	Goodwill written off	1,000		Other Exps.	25000	
**	Preliminary-exps. written off	2,000		in factory	1,000	6,000
**	Net Profit	16,280	"	Dividends received		900
		3,14,900				3,14,900

In the Cost Accounts:

- (1) Factory expenses have been allocated to the production at 20% on prime cost.
- (2) Expenses of administration at ₹. 3 per unit produced.
- (3) ₹. 4 per unit sold for selling expenses.

Prepare Costing Profit and Loss Accounts of the Co. and reconcile the profits disclosed by Cost Account and those shown by Financial Account.

#### Solution:

#### Statement Showing Cost and Profit

	₹.	₹.
Materials	1,37,000	
Less: Work-in-Progress	3,200	1,33,800
Labour	75,500	
Less: Work-in-Progress	1,800	73,700
Prime Cost		2,07,500
Factory Expenses (20% of Prime Cost)		41,500
Factory Cost	Г	2,49,000
Administrative Exps. @ ₹. 3 per unit (6,200 × 3)		18,600
Cost of Production		2,67,600
Less: Closing Stock 200 units valued at Cost of Production		8,632
Cost of Goods Sold	Г	2,58,968
Selling Expenses @ ₹. 4 : (6,000 × 4)		- 24,000
Cost of Sales		2,82,968
Profit		17,032
Sales		3,00,000

Note: Closing stock is valued at cost of production

i.e., ₹. 2,67,600 × 200/6,200 = ₹. 8,632 (approx.)

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Reconciliation Statement

	₹.	₹.
Profit as per costing books		17,032
Add	1	
Over recovery of selling exps. (24,000 - 22,500)		1,500
Over recovery of factory exps. (41,500 - 40,500)		1,000
Dividend received recorded in financial books	L	900
Less:		20,432
Under-recovery of adm. (19,120 - 18,600)	520	
Preliminary exps. written off in financial books	2,000	
Goodwill written off	1,000	
Closing stock adjustment (8,632 - 8,000)	632	4,152
Profit as per financial accounts		16,280

Illustration 8: A manufacturer produces patent fire extinguishers of a standard type. The following is the Trading and Profit and Loss Account for the year ended 31st December, 2004.

## Trading and Profit and Loss Account (For the year ended 31st Dec., 2004)

V		₹.				₹.
To	Materials used	29,150.00	Ву	Sales		75,000.00
**	Productive Wages	18,610.00	**	Stock of Finished go	oods	1,812.50
**	Factory Expenses	14,055.00	**	Work-in-Progress:		140
**	Gross Profit c/d	20,527.50		Materials	2,800	
		34		Wages	1,560	
				Factory Expenses	1,170	5,530.00
		82,342.50				82,342.50
To	Admin. Expenses	13,650.00	Ву	Gross Profit b/d		20,527.50
"	Net Profit c/d	6,877.50				
		20,527.50				20,527.50

1.550 Extinguishers were manufactured during the year and 1,500 were sold during the same period.

The cost records showed that factory expenses worked out at ₹. 8.25 and administrative expenses at ₹. 9.0625 per article produced. The Cost Accounts was showing an estimated total profit of ₹. 7,031.25 for the year. From the given information, you are required to prepare (a) Factory On cost Account (b) Administration On cost Account and (c) An account showing the reconciliation between the total net profit as per the Cost Account and the figure of net profit shown in the Financial Books.

#### Solution:

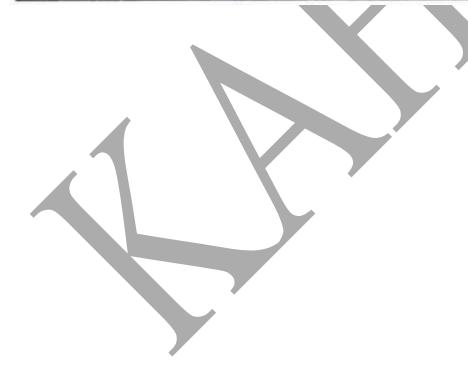
#### (a) Factory on Cost Account

			7
To Factory Expenses	14,055.00	By Finished Articles (1550 @ ₹. 8.25)	12,787.50
		By Work-in-Progress	1.170.00
	14.055.00	" Under-recovery	14.055.00

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		₹.		₹.
To	Administration Expenses	13,650.00	By Finished Articles	400000000000000000000000000000000000000
**	Over-recovery	396.87	(1550 @ ₹. 9.0625)	14,046.87
		14,046.87		14,046.87
		(c) Reconcillia	ation Account	
		₹.		₹.
То	Under-recovery of		By Profit as per Cost Account	7,031.25
	Factory overheads	97.50	" Over-recovery of	10
**	Administration		Administration overhead	396,87
	Expenses on sold stock			
	(50 @ ₹. 9.0625)	453.12		
**	Profit as per Profit			
	and Loss A/c	6,877.50		
		7.428.12		7,428.12



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Illustration 9: The net profit shown by financial accounts of X Ltd. amounted to ₹. 37,100, while the profit disclosed by Cost Accounts were ₹. 57,320. On reconciliation of the figures, the following differences were noted:

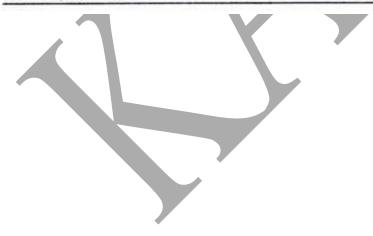
- (i) Director's fees not charged in Cost Account ₹. 1,300.
- (ii) A provision for bad and doubtful debts not charged in Cost Accounts ₹. 1,140.
- (iii) Income Tax paid shown only in Financial Accounts ₹. 16,600.
- (iv) Overheads in Cost Accounts were estimated at ₹. 17,000. The charge shown by Financial books was ₹. 16,640.
- (v) Work was started during the year on a new factory and expenditure of ₹. 16,000 was incurred. Depreciation of 10% was provided in Financial Accounts.
- (vi) Bank interest received ₹. 60

Prepare Reconciliation Statement.

Solution:

#### Reconciliation Statement

	₹.	₹.
Profit as per Cost Account		57,320
Add:		
Overheads overcharged in Cost Accounts	360	
Bank Interest not shown in Cost Accounts	60	420
Less: (i) Income Tax not charged to Cost A/c	16,600	57,740
(ii) Directors fees not charged to Cost A/c	1,300	
(iii) Provision for b/d not charged	1,140	
(iv) Depreciation on new factory not charged	1,600	20,640
Profit as per P/L A/c		37,100



Class: III B.Com PA Course Name: Applied Cost Accounting

Course Code: 16PAU503A Unit V Semester: V Year: 2016-19 Batch

Illustration 10: The financial records of Modern Manufacturing reveal the following for the year ended ....

		₹ in Thousands
Sales (20,000 units)		4,000
Materials		1,600
Wages		800
Factory Overheads	1 1	720
Office and Administrative Overheads	1 1	416
Selling and Distribution Overheads		288
Finished goods (1,230 units)	1 1	240
Work-in-Progress		
Materials	48	
Labour	32	
Factory Overheads	32	112
Goodwill written off		320
Interest on Capital		32

In costing records, factory overhead is charged at 100% of wages, administrative overhead 10% of factory cost and selling and distribution overhead at the rate of ₹. 16 per unit sold.

Prepare a statement reconciling the profit as per cost records with the profit as per financial records of the company.

Solution:

#### Modern Manufactures Profit and Loss Account

	(For the ye	ar ended	)	(? in thousands)
То	Materials	₹. 1,600	By Sales (20,000 units)	₹.
**	Wages	800	" Costing Stock:	4,000
**	Factory Overheads	720	Finished Goods	
**	Office and Admn. overheads	416	(1230 units)	240
"	Selling and Distribution Overheads	288	Work-in-progress	112
"	Goodwill written off	320		
**	Interest on capital	32		
**	Net profit	176		
		4,352		4,352

Statement of Cost (In thous	and rupees)
Section and the section of the secti	₹.
Materials	1,600.00
Wages	800.00
Prime Cost	2,400.00
Factory Overhead (100% of Wages)	800.00
Gross Factory Cost	3,200.00
Less: Closing work-in-progress	112.00
Factory Cost (21,230 units)	3,088.00
Administrative Overhead (10% of factory Cost)	308.80
Cost of Production (21,230 units)	3,396.80
Less: Closing Stock (1,230 units) (3396.80 × 1,230/21,230)	196,80
Cost of Goods Sold (20,000 units)	3,200.00
Selling and Distribution Overheads (@ ₹. 16 per unit)	320.00
Cost of Sales	3,520.00
Profit	480.00
Sales (20,000 units)	4.000.00

Class: III B.Com PA Course Name: Applied Cost Accounting

Course Code: 16PAU503A Unit V Semester: V Year: 2016-19 Batch

Reconciliation Statement	(In Thousa	nd Rupees)
Profit as per Cost Accounts	₹.	₹.
Add: Factory Overheads over recovered (800 - 720) Selling and Distribution Overhead		80.00
Over absorbed (320–288)		32.00
Closing stock over valued in financial accounts (240 - 196.8)		43.20
		635.20
Less: Administrative Overhead under absorbed (416 - 308.80)	107.20	
Goodwill written off in financial accounts only	320.00	
Int. on capital charged in financial accounts only	32.00	459.20
Profit as per Financial Accounts		176.00



Class: III B.Com PA Course Name: Applied Cost Accounting

Course Code: 16PAU503A Unit V Semester: V Year: 2016-19 Batch

Illustration 11: From the following expenses given below, prepare (a) a statement showing costing profit and loss and (b) another statement reconciling the costing profits with those shown by financial accounts.

## Trading and Profit and Loss Account

	₹.		₹.
Materials consumed	1,50,000	Sales (1,50,000 units)	3,00,000
Direct Wages	75,000		0.5%1.0650.03
Indirect Factory Exps.	45,000		
Office Expenses	13,500		
Selling and Distribution exps.	9,000		
Net Profit	7.500		
	3,00,000		3,00,000

The normal output of the factory is 2,25,000 units. Factory expenses of a fixed nature are ₹. 27,000. Office expenses are for all practical purposes constant. Selling and distribution expenses are constant to the extent of ₹. 3,000 and the balance varies with sales.

Solution:

## Statement of Profit as per Cost Accounts

(Units: 1,50,000)

Materials Consumed		₹. 1,50,000
Direct Wages		75,000
Prime Cost		2,25,000
Works Overheads		
Variable (45,000 – 27,000)	18,000	
Fixed (27,000 × 1,50,000 / 2,25,000)	18,000	36,000
Works Cost		2,61,000
Office Overhead (13,500 × 1,50,000 / 2,25,000)	1	9,000
Cost of Production		2,70,000
Selling and Distribution Overhead		
Variable (9,000 - 3,000)	6,000	
Fixed (3,000 × 1,50,000 / 2,25,000)	2,000	8,000
		2,78,000
Profit	1	22,000
Sales (1,50,000 units)		2,00,000

Note: It has been assumed that fixed overhead must have been determined on the basis of normal output i.e. 2,25,000 units. Fixed Overheads recovered in cost would be:

Amount of fixed overhead × 1,50,000/2,25,000.

Class: III B.Com PA Course Name: Applied Cost Accounting

Course Code: 16PAU503A Unit V Semester: V Year: 2016-19 Batch

Reconciliation Statement		
	₹.	
Profit as per Financial Accounts	7,500	
Add: Under recovery of Works Overhead in Cost Accounts (₹. 45,000 – 36,000)	9,000	
Add: Under recovery of Office Overheads in Cost Accounts (₹. 13,500 – 9,000)	4,500	
Add: Under recovery of Selling and Distribution Overheads in Cost Accounts (₹. 9,000 – 8,000)	1,000	
Profit as per Cost Accounts	22,000	

QUESTION	OPTION1	OPTION2	OPTION3	OPTION4
UNIT - V				
cost unit	unit price	process	Contract	Unit
Contracts are generally of a				
duration	Long	Short	medium	very long
costing is mainly	Process			Contract
adopted in construction of bridges	costing	Job costing	Unit costing	costing
the number of contract undertaken				
are usually	High	Small	Medium	Very Low
installments depending on the	Process			Contract
process of work	costing	Job costing	Unit costing	costing
ofcosting	costing	Job costing	Unit costing	costing
a seprate account				Specific
is prepared for each contract	Contract	Unit	Job	Order
constitute a major portion of the				
total cost of the contract	Direct	Indirect	Fixed	Variable
constitue a small portion of the				
total cost of contract	Direct	Indirect	Fixed	Variable
the contract is to				
the contract account	Debited	Credited	Enetered	Fixed
the contract is also				
to the contract account	Debited	Credited	Enetered	Fixed
which cannot be	Dircet	Indirect	Fixed	Variable
directly charged to contract	expenses	Expenses	Expenses	Expenses
long time for completion and				
require huge investments	Large	Small	Medium	Very High
contractor after the expiry of a				
stipulate time	usable	recovery	wastage	useful
reserve	profit	recovery	wastage	useful
installments depending on the	Process			Contract
process of work	costing	Job costing	Unit costing	costing
contract in which the contractee				
agrees to pay the cost of work	Cost +		Retention	
done plus a percenatge of it	contract	Esclation clause	money	Unit Contract
contracts is assure a fixed	Cost +		Retention	
percentage of profit	contract	Esclation clause	money	Unit Contract
agreement	contract	Esclation clause	money	Unit Contract
of the contract				
price is taken to profit and loss	one fourth	two fourth	three fourth	one fifth
as constuctions of bridgs, theatres				
and hospitals takes a long time to				
complete	Large	small	medium	Very small
	Process	Job costing	costing	costing

	I	T	~ · ·	Ia ·
costing applied to ascertain the	Operating		Contract	Service
cost of providing a service	Costing	Job costing	costing	costing
type of costing	Operating		Contract	Service
used in transport services	Costing	Job costing	costing	costing
oraganisation is known as	Internal	External		Costing
	Service	Service	Both	Service
calculated by dividing the toatl				
cost by number of service units	Operating		Contract	Service
produced or renderd	Costing	Job costing	costing	costing
selected in oredr to ascertain the				
unit of services	Cost	Demand	Sales	Supply
other name of service costing	Costing	Job costing	costing	costing
costing do not produce goods but	Operating		Contract	Service
render service	Costing	Job costing	costing	costing
is known as	Service	Service	Both	Service
services	Hospital	industry	service outlet	distributors
variable is taken	unit	unit	unit	unit
	Composite		single unit	opertaing
In case more than one variabke is combined	costing	multiple costing	_	costing
costing is	Composite	1 5	single unit	opertaing
the selection of cost unit	costing	multiple costing	_	costing
incurred weather the vechicle is	Standing	operating	maintenance	variable
running or not	Charges	charges	charges	charges
in Standing charges variables are				
in nature	Fixed	Variable	Semivariable	Changed
is one of				g
the example of standing charge	Rent	Salary	Fuel	Power
variable in nature	Charges	charges	charges	charges
is an example		- 11012 B - 2		011012802
of operating charge	Pertol/ diesel	annual tax	Insurance	Rent
charges are	Standing	operating	maintenance	variable
semi variable in nature	Charges	charges	charges	charges
is an example	Charges	onar ges	<u> </u>	onar ges
of maintenance charge	Repairs	Depreciation	Wages	Annual Tax
or manitemance energe	Fixed cost	Variable Cost	Cost	Cost
	Fixed cost	Variable Cost	Cost	Cost
	Fixed cost	Variable Cost	Cost	Cost
	Fixed cost	Variable Cost	Cost	Cost
	Fixed cost	Variable Cost	Cost	Cost
	Fixed cost	Variable Cost	Cost	Cost
in	Fixed cost	Variable Cost  Variable Cost	Cost	Cost
Wages of operators will incurr in	1 IACU CUSI	v arrapic Cost	Maintenance	Operating
•	Fixed cost	Variable Cost	Cost	Cost
cost	Fixed cost	Variable Cost		
cost	Fixed cost	Variable Cost	Cost	Cost

for long duartion	Job costing	Process costing	unit costing	Costing
depending on				
the process of work	monthly	annually	installments	quaterly
unit	Cost	Sales	Purchase	Supply
ascertained for				
contract	All	Each	Single	Multiple
accounts are prepared for each				
contract	Multiple	seprate	Single	All
usually excecuted at the size of the				
contract	Work	Process	Account	Sales
a major portion	Direct cost	Indirect cost	total cost	Fixed Cost
cannot be directly changed to	Direct	Indirect	variable	Fixed
contracts	expenses	Expenses	expenses	Expenses
can be ascertained				
only on completion of the contract	Profit	Loss	Sales	Demand
In Standing charges variables are				
in nature	Fixed	Variable	Semivariable	Changed

ANSWER
Contract
Long
process costing
Small
<b>Contract Costing</b>
costing
Contract
Direct
In direct
Debited
Debited
Indirect
Expenses
Large
recovery Notionla Profit
1 tottoma 1 tont
Contract Costing
Cost + contract
Cost + contract
<b>Esclation clause</b>
one fourth
Large
Service Costing

Operating
Costing
Operating
Costing
<b>Internal Service</b>
Operating
Costing
Cost
Costing
Operating
Costing
external service
Hospitals
simple cost unit
composite costing
Operating
Costing
standing charges
-
Fixed
Rent
Rent operting charges
Rent operting charges Petrol/Diesel
Rent operting charges  Petrol/Diesel maintenance
Rent operting charges Petrol/Diesel
Rent operting charges  Petrol/Diesel maintenance charges
Rent operting charges  Petrol/Diesel maintenance charges  Repairs
Rent operting charges  Petrol/Diesel maintenance charges  Repairs Fixed Cost
Rent operting charges  Petrol/Diesel maintenance charges  Repairs Fixed Cost Fixed Cost
Rent operting charges  Petrol/Diesel maintenance charges  Repairs Fixed Cost Fixed Cost Fixed Cost
Rent operting charges  Petrol/Diesel maintenance charges  Repairs Fixed Cost Fixed Cost Fixed Cost Maintenance cost
Rent operting charges  Petrol/Diesel maintenance charges  Repairs Fixed Cost Fixed Cost Fixed Cost Maintenance cost Maintenance cost
Rent operting charges  Petrol/Diesel maintenance charges  Repairs Fixed Cost Fixed Cost Fixed Cost Maintenance cost Maintenance cost Maintenance cost
Rent operting charges  Petrol/Diesel maintenance charges  Repairs Fixed Cost Fixed Cost Fixed Cost Maintenance cost Maintenance cost
Rent operting charges  Petrol/Diesel maintenance charges  Repairs Fixed Cost Fixed Cost Fixed Cost Maintenance cost Maintenance cost Maintenance cost Operating Cost
Rent operting charges  Petrol/Diesel maintenance charges  Repairs Fixed Cost Fixed Cost Maintenance cost Maintenance cost Maintenance cost Operating Cost  Operating Cost
Rent operting charges  Petrol/Diesel maintenance charges  Repairs Fixed Cost Fixed Cost Fixed Cost Maintenance cost Maintenance cost Maintenance cost Operating Cost

contract costing
Installments
Cost
All
Seprate
Work
Direct Cost
Direct Expenses
Profit
Fixed