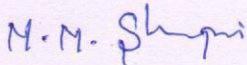


## CERTIFICATE

This is to certify that the dissertation entitled "**A GRAPH THEORITICAL NETWORK MODEL ON HUMAN HEART**" submitted to the Karpagam Academy of Higher Education in partial fulfilment of the requirements for the award of the degree of **Bachelor of Science in Mathematics** is a bonafide record of original research work done by **BHARATHI KANNAMMAL M** during the period 2019 -20 of their study in the Department of Mathematics at Karpagam Academy of Higher Education, Coimbatore, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/Diploma/Associate/Fellowship or similar title to any candidate of any University.



**Signature of Head of the Department**

**Dr. M. M. SHANMUGAPRIYA, Ph.D.,**  
Professor & Head,  
Department of Mathematics,  
Karpagam Academy of Higher Education,  
Coimbatore - 641 021, Tamilnadu, India.



**Signature of the Guide**

**Dr. K. KALIDASS, M.Sc., M.Phil., Ph.D.,**  
Professor  
Department of Mathematics  
Karpagam Academy of Higher Education  
Coimbatore - 641 021.