**2008 Alagappa University M.Sc Information Technology COMPUTER NETWORKS Question paper**

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| **Course: M.Sc M.Sc Information Technology** |  | **University/board: Alagappa University** |

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PART A — (10 x 3 = 30 marks)  
Answer ALL questions.  
  
1. Define network.  
2. Differentiate Broadcast networks from point-to-point networks.  
3. List any four transmission media.  
4. Give example for Data Link Protocols.  
5. Write notes on SLIP.  
6. Expand : CDFD and GSM.  
7. Write about token ring and datagram subnets.  
8. Compare virtual circuit and datagram subnets.  
9. Explain Internetwork routing.  
10. What are the two subsystem of E-mail? Explain briefly.  
  
PART B — (4 x 10 = 40 marks)  
Answer any FOUR questions.  
  
11. Discuss the OSI Reference model.  
12. Discuss on :  
(a) WAN  
(b) Wireless Network.  
13. Discuss about any two transmission media.  
14. Explain a one bit sliding window protocol.  
15. Explain the method of releasing a connection.  
16. Explain DES algorithm as a product cipher.  
  
PART C — (2 x 15 = 30 marks)  
Answer any TWO questions.  
  
17. (a) Write in detail about Data Link Layer Design issues. (10)  
(b) Write short notes on multiple access protocols. (5)  
18. (a) Discuss on Radio Transmission and microwave transmission.  
(b) Describe any two of the data link layer design issues.  
19. (a) Explain the wavelength division multiple access protocols.  
(b) Explain the concept of Transparent Bridges.