

AQ - 874

**First Semester M.Sc. (Part - I) (CBCS Pattern)
Examination**

COMPUTER SCIENCE

Computer Networks

Paper - 1 MCS 4

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

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- Note :** (1) All questions are compulsory.
(2) Assume suitable data whenever necessary.
(3) Illustrate your answer with neat sketches, wherever necessary.

1. (a) Draw the layered architecture of TCP/IP model. Describe its services. 8
- (b) Describe the various unguided communication media. 7

OR

2. (a) Explain :—
 - (i) FDM
 - (ii) TDM 8
- (b) What is packet switched network ? Explain its working. 7

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3. (a) Explain various types of HTTP connections. 7
(b) Describe the working of DNS. 6

OR

4. (a) Explain the cookies mechanism in HTTP. 6
(b) List and describe various FTP commands and the probable replies. 7

5. (a) What is flow control ? Explain. 6
(b) Describe the services provided by UDP. 7

OR

6. (a) What are sockets ? Explain how processes communicate through sockets. 7
(b) Distinguish between stop-and-wait and pipelined data transfer protocol. 6

7. (a) Explain the classification of routing algorithms. 7
(b) Describe the various classes of IP addresses. 6

OR

8. (a) Describe the working of the RIP. 7

- (b) Explain the services provided by network layer. 6

9. (a) What is Address Resolution Protocol ? Explain. 7
(b) Describe the characteristics of point-to-point protocol. 6

OR

10. (a) Explain the IEEE 802.11 standard for wireless LAN. 7
(b) What is multiple access problem ? Explain. 6

11. (a) What is network management ? Describe various areas of network management. 7
(b) Explain the concept of secure email. 6

OR

12. (a) What is digital signature ? Write the procedure for creating a digital signature. 7
(b) What is packet sniffing ? Explain. 6

