

19. (a) Discuss the problems in internet working.

Or

(b) Explain the Virtual Network.

20. (a) Explain UDP format.

Or

(b) Write a detailed note on TelNet.

Reg. No. :

Code No. : 7704

Sub. Code : C 3 A 4

M.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2010.

Third Semester

Computer Applications

COMPUTER NETWORKS

(For those who joined in July 2008 and afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

1. Give two examples of analog signals.
2. What is Simplex communication?
3. What is the difference between layer delivery and transparent delivery?
4. What is OSI Model?
5. What are the ISDN protocols used by ISDN?
6. How LAN is connected to SMDS?

7. What are the X.25 layers?
8. What is a Bridge?
9. How does MIME enhance SMTP?
10. What is FTP?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain the difference between analog and digital signals.
Or
(b) List the steps involved in creating a checksum.
12. (a) Write a short notes on Star topology.
Or
(b) Write down the responsibilities of data link layer.
13. (a) Briefly describe fast Ethernet.
Or
(b) Describe the slot reservation method in DQDB.

14. (a) How are flow and error control handled by X.25?

Or

- (b) Write down the applications of ATM.

15. (a) What are all the duties of transport layer?

Or

- (b) Write a short note on CMIP.

PART C — ($5 \times 8 = 40$ marks)

Answer ALL questions, choosing either (a) or (b).

16. (a) Explain the modes of Data Transmission.

Or

- (b) Write a detailed note on Simplex and Duplex Communication.

17. (a) Describe the different categories of Network.

Or

- (b) Explain the five basic network topologies.

18. (a) Explain the LAN and Ethernet.

Or

- (b) Explain the background and architecture of ISDN.