

E- JUN 2006

Subject Code—4385-X

M.C.A. EXAMINATION

June, 2006

(Fifth Semester)

(Re-appear)

MS-34

HIGH SPEED NETWORKS

Time : 3 Hours

Maximum Marks : 100

Note : Attempt any *Five* questions. All questions carry equal marks.

1. (a) Draw and explain flow chart summarizing how to troubleshoot poor network performance.
(b) Explain structure of a FDDI frame.
2. (a) Discuss A, B, S and M port types supported by Fiber Distributed Data Interface.

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- (b) Explain the following standards in gigabit ether net :
- (i) 1000 Base SX
 - (ii) 1000 Base LX
 - (iii) 1000 Base CX
 - (iv) 1000 Base T.
3. Explain the following in gigabit ethernet using appropriate diagrams :
- (a) VLAN
 - (b) RSVP
 - (c) Video Compression
 - (d) 8B/10B encoding in 1000 Base CX.
4. (a) Discuss ordered set, frame, sequence and exchange in fiber channel.
- (b) Write down functions of D, M and P channel in isoEthernet.
5. (a) Differentiate between BRI and PRI ISDN.
- (b) Explain the following services in ISDN :
- (i) Call Offering
 - (ii) Teleservices
 - (iii) CLI.

6. (a) Explain the process of statistical multiplexing in frame relay networks.
- (b) Discuss the function of Convergence Sublayer (CS) and AAL-5 sublayer in ATM adaptation layer.
7. (a) Explain LAN emulation in ATM networks.
- (b) Differentiate between ADSL, HDSL and SDSL services.
8. Write short notes on the following :
 - (a) Cell Switching
 - (b) Broadband ISDN
 - (c) 106 Network.