

2007

Subject Code—7267-X

**M.C.A. EXAMINATION**

(Fifth Semester)

(Re-appear)

MS-34

**HIGH SPEED NETWORKS**

*Time : 3 Hours*

*Maximum Marks : 100*

**Note :** Attempt any *Five* questions.

1. (a) Explain how to troubleshoot poor network performance using flow chart. 10  
(b) Explain A, B, S and M port types in Fibre Distributed Data Interface. 10
2. (a) Compare features of 1000 Base SX, 1000 Base LX, 1000 Base CX and 1000 Base T specification. Also discuss 8B/10B encoding in 1000 Base CX. 10

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- (b) Explain how RSVP mechanism works to ensure quality of service in Gigabit Ethernet. Also discuss VLAN in gigabit ethernet. 10
3. Explain in detail all the layers of Fibre Channel. Also discuss frame format and classes of services in fibre channel. 20
4. (a) Discuss different types of channels in isoethernet. Also list out advantages and disadvantages of isoethernet. 10
- (b) Explain the following in reference to ISDN : 10
- (i) PRI
- (ii) BRI
- (iii) Channels.
5. (a) Explain different services and NTA devices in Integrated Services Digital Network. 10
- (b) Draw and explain all the fields of frame relay. Also compare frame relay with packet switching. 10

6. Explain the following subscriber lines : 20
- (i) ADSL
- (ii) HDSL
- (iii) DSL
- (iv) VDSL
- (v) SDSL
7. Explain ATM reference model in detail along with ATM switches and cell structure. 20
8. Write short notes on the following :
- (a) Management system for high speed networks 10
- (b) SMDS. 10