

Roll No. ....

Exam Code : J-19

Subject Code—0112

**M.C.A. EXAMINATION**

(Batch 2009 Onwards)

(Fifth Semester)

HIGH SPEED NETWORKS

(for the students who has taken admission after  
M.Sc.(CS) in 2009)

MS-34

*Time : 3 Hours*

*Maximum Marks : 70*

**Section A**

**1. Define any *seven* of the following : 7×5=35**

- (i) LAN
- (ii) Ethernet
- (iii) Congestion
- (iv) High Speed Network
- (v) Data Link Layer

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- (vi) Physical Layer
- (vii) Cable Modem
- (viii) Broadband
- (ix) Fibre Channel
- (x) OSI.

4. Explain any *two* of the following ::

- (i) HDSL
- (ii) ADSL
- (iii) ATM Switches
- (iv) ISO Ethernet 802.9a.

**11**

### **Section B**

**Note :** Attempt all the questions.

2. Draw and explain layered protocol architecture and frame format of Gigabit Ethernet.

*Or*

Draw and explain different layers in Fibre channel along with its frame format. **12**

3. Explain traffic management in ATM networks. Also explain cell structure of ATM.

*Or*

Discuss in short the following technologies :

- (i) ISDN
- (ii) SMDS. **12**