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Roll No.

DD683

M.C.A. EXAMINATION, 2020

(Fourth Semester)

(B Scheme) (Re-appear)

Master of Computer Applications

MCA506

COMPUTER NETWORKS

Time : 2½ Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Four* questions in all. All questions carry equal marks.

Unit I

1. What is ISDN ? Explain. Also discuss in detail the concepts of error detection and correction. **15**
2. What is OSI model ? Explain the functions of each layer. Also discuss the different types of transmission media. **15**

Unit II

3. Explain the following :
 - (a) ARQ and RTP **8**
 - (b) HLDC and Statistical Multiplexing. **7**
4. Explain the following :
 - (a) ALOHA and Slotted ALOHA **8**
 - (b) CDMA and CSMA. **7**

Unit III

5. Explain architecture of TCP/IP. Also discuss the function of different layers of TCP/IP and also discuss the concepts of IP addressing. **15**

6. Explain the following :
- (a) User Datagram Protocol
 - (b) ARP and RARP. **15**

Unit IV

7. Explain the different types of remote monitoring techniques. Also discuss the concepts of Frame Relay. **15**
8. What is WAN ? Discuss the different WAN technologies Also discuss the concepts of Distributed Queue Dual Bus (DQDB) and Firewalls. **15**