

Code No: MC1332/R13**MCA III Semester Regular/ Supplementary Examinations, November-2016****COMPUTER COMMUNICATIONS****Time: 3 Hours****Max. Marks: 60**

*Answer Any FIVE Questions
All Questions Carry Equal Marks*

1. a Explain the concept of unreliable communication. How it is different from connection oriented service-reliable communication? 6M
b How OSI is different from TCP/IP in terms of services, Interfaces and protocols? Explain. 6M
2. a Explain the process of incorporating flow control and error control through elementary data link layer protocols. 6M
b What is the role of cyclic code in data link layer? How to catch the error with these generator polynomials? Explain with CRC-16. 6M
3. a Explain the following with respect to standard Ethernet 6M
 - i) Characteristics
 - ii) Addressing
 - iii) Implementation.
b Explain five important operations that a router does in Link State routing. 6M
4. a What is congestion? Explain various of approaches used for congestion control. 6M
b Explain the classless, class full and special addressing mechanisms used in Internet Protocol. 6M
5. a With neat sketch explain the headers and extension header formats of IPV6 6M
b In detail discuss the Cell formats and service categories of ATM networks. 6M
6. Explain the following elements of transport protocols. 12M
 - a. Addressing
 - b. Connection Establishment
 - c. Connection release
 - d. Flow and Error Control.

