

Code: EC6T6

III B.Tech - II Semester – Regular Examinations – April 2016

**COMPUTER NETWORKS
(ELECTRONICS & COMMUNICATION ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

Answer any FIVE questions. All questions carry equal marks

1. a) Explain in detail the structure of OSI reference model with neat diagram. 7 M
b) Define the term "Network". Explain different types of networks. 7 M
2. a) Explain about various guided transmission media. 7 M
b) Discuss in detail about broad band ISDN. 7 M
3. a) Discuss sliding window protocol using Go back n. 7 M
b) Explain about the frame format of HDLC protocol. 7 M
4. a) What is CSMA? Bring out the differences between 1-persistent, non-persistent, and p-persistent, CSMA. 7 M
b) Explain in detail about different types of bridges. 7 M

5. a) Explain the distance vector routing algorithm. 7 M
- b) Explain shortest path algorithm with a suitable illustration. 7 M
6. a) Explain about internet control protocols. 7 M
- b) Explain about IPV6 header format. 7 M
7. a) Explain the congestion control technique in TCP. 7 M
- b) How is UDP protocol implemented in the internet transport protocol? 7 M
8. a) List and discuss the types of DNS records. 7 M
- b) Explain the architecture and services of e-mailing system. 7 M