

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER– V • EXAMINATION – WINTER 2016

Subject Code: 150702

Date: 24/11/2016

Subject Name: Computer Network

Time: 10:30AM – 01:00PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** What do you mean by guided transmission media? Enlist various guided media used for data transmission. Explain co-axial cable in detail. **07**
- (b)** What is framing? Give example of character count method of framing. **07**
- Q.2 (a)** Draw neat and clean diagram of OSI reference model. **07**
- (b)** Explain with example: Error detection at Data link layer **07**
- OR**
- (b)** Explain CRC technique with example. **07**
- Q.3 (a)** What is collision in data transmission? Explain Bitmap protocol with example. **07**
- (b)** Write a note on Ethernet cabling. **07**
- OR**
- Q.3 (a)** Explain various ALOHA protocols. **07**
- (b)** Write a short note on CSMA. **07**
- Q.4 (a)** What is routing? How flooding can be used for routing? Give example. **07**
- (b)** Explain addressing mechanism at Transport layer. **07**
- OR**
- Q.4 (a)** What is congestion? Explain choke packets and hop-by-hop choke packets. **07**
- (b)** Write a short note on Mobile IP **07**
- Q.5 (a)** Write a short note on DNS **07**
- (b)** Write a short note on IP address. **07**
- OR**
- Q.5 (a)** Write a note on World Wide Web. **07**
- (b)** Explain shortest path routing with example. **07**
