

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**
