

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-V • EXAMINATION – SUMMER • 2014**

**Subject Code: 150702**

**Date: 13-06-2014**

**Subject Name: Computer Network**

**Time: 10.30 am - 01.00 pm**

**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) Explain :LAN, WAN and internet **07**  
(b) Explain functions of different layers of OSI model. **07**
- Q.2** (a) Explain : X.25 and 802.11 standards . **07**  
(b) Explain sliding window protocol. **07**
- OR**
- (b) Compare : Simplex and Stop and Wait Protocol. **07**
- Q.3** (a) What is Ethernet? Explain Fast ethernet and Gigabit ethernet. **07**  
(b) What is channel allocation? How CSMA helps to solve problem? **07**
- OR**
- Q.3** (a) Explain Different types of Switching methods with examples. **07**  
(b) Explain Hierarchical and Multi cast Routing. **07**
- Q.4** (a) Compare UDP and TCP. **07**  
(b) Explain Distance Vector Routing with example. **07**
- OR**
- Q.4** (a) What is IP address? What is Subnet? Explain different IP address **07**  
Classes.  
(b) Explain Any two Application Layer Protocol. **07**
- Q.5** (a) Discuss Design Issues in Data link Layer. **07**  
(b) Explain : ATM , DNS and its use. **07**
- OR**
- Q.5** (a) Explain : ALOHA , Tunneling **07**  
(b) Explain fragmentation , Router and its use. **07**

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