

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

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

# **GUJARAT TECHNOLOGICAL UNIVERSITY**

**M. E. 1<sup>ST</sup> Semester Remedial Examination –July- 2011**

**Subject code: 710309**

**Subject Name: Industrial Data Communication**

**Date:12/07/2011**

**Time: 10:30 am – 01:00 pm**

**Total Marks: 60**

## **Instructions:**

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

**Q.1** Explain in detail the difference between Go Back N protocol and Selective Repeat protocol **12**

**Q.2 (a)** Write short note on Petri Net Models. **06**  
**(b)** Give comparison between OSI and TCP/IP Reference Models. **06**

**OR**

**(b)** Explain Electromagnetic Spectrum in detail. **06**

**Q.3 (a)** Write a short note on Fast Ethernet. **06**  
**(b)** Explain the frame structure of 802.16 protocol. **06**

**OR**

**Q.3** Explain in detail various types of guided transmission media. **12**

**Q.4** Explain CDMA technology for mobile communication in detail. **12**

**OR**

**Q.4** Explain MACA and MACAW protocol and discuss the Hidden and exposed station problem of wireless protocol. **12**

**Q.5 (a)** Explain Distance Vector Routing in brief. **06**  
**(b)** What is Count-to-Infinity Problem? Explain in brief. **06**

**OR**

**Q.5 (a)** Explain Wavelength division multiple access protocol. **06**  
**(b)** Write a short note on Hamming code. **06**

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