

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. 1ST 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: 70

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 **14**

Q.2 (a) Write short note on Petri Net Models. **07**
(b) Give comparison between OSI and TCP/IP Reference Models. **07**

OR

(b) Explain Electromagnetic Spectrum in detail. **07**

Q.3 (a) Write a short note on Fast Ethernet. **07**
(b) Explain the frame structure of 802.16 protocol. **07**

OR

Q.3 Explain in detail various types of guided transmission media. **14**

Q.4 Explain CDMA technology for mobile communication in detail. **14**

OR

Q.4 Explain MACA and MACAW protocol and discuss the Hidden and exposed station problem of wireless protocol. **14**

Q.5 (a) Explain Distance Vector Routing in brief. **07**
(b) What is Count-to-Infinity Problem? Explain in brief. **07**

OR

Q.5 (a) Explain Wavelength division multiple access protocol. **07**
(b) Write a short note on Hamming code. **07**
