

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – I • EXAMINATION – SUMMER • 2013

Subject code: 710309N

Date: 17-06-2013

Subject Name: Industrial Data Communication

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 TCP/IP reference model. **10**
(b) Explain framing with respect to data link layer **04**
- Q.2** (a) Explain the classification of ETHERNET **07**
(b) Differentiate between circuit switching and packet switching for public switched telephone network **07**
- OR**
- (b) Explain the concept of shortest path routing. **07**
- Q.3** (a) Explain GSM technology for mobile communication in detail. **09**
(b) Write a short note on frequency division multiplexing **05**
- OR**
- Q.3** (a) Explain the Protocol using Go Back N in detail **09**
(b) Explain Distance Vector Routing in brief. **05**
- Q.4** (a) Write a short note on Hamming code. **07**
(b) Explain the frame structure of 802.16 protocol **07**
- OR**
- Q.4** (a) Explain the concept of Petri-net model **07**
Q.4 (b) Write short note on reverse path forwarding **07**
- Q.5** Explain the structure of the telephone system in detail **14**
- OR**
- Q.5** Explain stop and wait protocol for noisy channel. **14**
