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B.Tech.(EIE) (2011 & Onwards E-II) (Sem.-6) INDUSTRIAL DATA COMMUNICATIONS

Subject Code: DE-2.1 M.Code: 58031

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly:

- a. How many layers are there in OSI?
- b. What is the function of a bus in data communication?
- c. What is the difference between serial and parallel communication?
- d. What do you understand from topologies?
- e. What is the function of router in between two computers connected?
- f. Can a printer be shared by more than two computers connected in LAN?
- g. What are the types of fibre optic cables?
- h. What is PLC?
- i. What is DCOM?
- j. What is the function of data link layer?



SECTION-B

- 2. What do you understand from field bus system? How profibus and interbus work function? Explain
- 3. What are virtual private networks? How do they work?
- 4. What do you understand from master slave procedures?
- 5. Discuss the networking of PLC for communicating the data.
- 6. Explain
 - a) CAN
 - b) Active-X

SECTION-C

- 7. What do you understand from communication protocols and reference models? Explain the functioning of each layer of OSI and TCP/IP?
- 8. What is the role of information technology in data communication these days? How the RIP and OSPF router technologies work?
- 9. What is the difference between RS-232, RS-422 and RS-485? Explain in detail.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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