

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(EIE) (2011 & Onwards E-II) (Sem.-6)**INDUSTRIAL DATA COMMUNICATIONS****Subject Code : DE-2.1****Paper ID : [A0372]****Time : 3 Hrs.****Max. Marks : 60****INSTRUCTION TO CANDIDATES :**

1. **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**Q1. Answer briefly :**

- a) What are the functions of data link layer?
- b) What is Local Area Network (LAN)?
- c) List the layers of OSI model.
- d) What is communication protocol?
- e) Define CAN.
- f) What is the use of RS-232?
- g) What is OLE for Process Control?
- h) List the advantages of Fibre-optic cable.
- i) What is Token-Passing?
- j) What is the working principle of PLC?

SECTION-B

- Q2. Explain the functions of network and transport layer of OSI Model.
- Q3. What is OSPF? Explain the working of OSPF.
- Q4. Discuss in detail about Local Area Network (LAN).
- Q5. Explain in detail about Profibus and its features.
- Q6. Write a short note on PLCs.

SECTION-C

- Q7. a) Discuss about Virtual Private Networks in detail.
- b) Write a short note on DCOM.
- Q8. Differentiate between RS-232, RS-485 and RS-422 in detail.
- Q9. Explain TCP/IP model in detail with neat diagram.