

Sem. VI / Inst. / Industrial Data Communication / 14-12-15
INST

O.P. Code : 6435

(3 Hours)

[Total Marks : 80]

- N.B. : 1. Question No.1 is compulsory
 2. Solve any THREE questions out of remaining FIVE questions
 3. Figure to the right indicate full marks.

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| 1. Attempt following. | 20 |
| 1. Explain hubs and routers . | |
| 2. Compare RS 232 and RS 422 | |
| 3. Explain bust mode of HART protocol. | |
| 4. Compare H1 and H2 segment of foundation field bus. | |
| 5. Explain importance of session layer in OSI model | |
| 2. a. Explain architecture of HART protocol in detail | 10 |
| b. Write detail information about Mod bus. | 10 |
| 3. a. Explain Profibus-DP in detail. | 10 |
| b. Explain CAN bus along with its application . | 10 |
| 4. a. Compare WIFI, GPS and GPRS. | 10 |
| b. Explain TCP/IP protocol in detail | 10 |
| 5. a. Explain foundation field bus along with its advantages and disadvantages. | 10 |
| b. Explain different types of cable used in communication network along with its advantages and disadvantages | 10 |
| 6. Write a short note on:- | 20 |
| 1. Wireless LAN | |
| 2. GPIB | |
| 3. Data highway plus | |