

Sem VI / Inst / CBGS / IDC / NOV-16. / 20-12-2016

Industrial data communication

Q. P. Code : 598300

(3 Hours)



Total Marks: 80

Note:

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

1 Attempt following.

20

- A. Explain hubs and routers .
- B. Compare RS 232 and RS 422
- C. Explain bust mode of HART protocol.
- D. Compare H1 and H2 segment of foundation field bus.
- E. Explain importance of session layer in OSI model

2. (a) Explain architecture of HART protocol in detail

10

(b) Write detail information about Modbus.

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:

1. Wireless LAN

6

2. GPIB

7

3. Data highway plus

7