

(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 data link layer in OSI model.
2. (a) Explain communication mode of HART protocol. [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 manchester coding? [10]
6. Write a short note on:
- 1. Zigbee [06]
 - 2. LON [07]
 - 3. Data highway plus [07]
