DATA COMMUNICATION AND COMPUTER NETWORK

III SEMESTER

Time : 2.30 Hours]   [Maximum Marks : 50

Note : Attempt all questions.

1. **Answer any two of the following :**   [2 × 5 = 10]
    (a) Explain simplex, half duplex and full duplex transmission modes.
    (b) Explain unguided transmission media.
    (c) Define (i) Bit rate (ii) Noise

2. **Answer any two of the following :**   [2 × 5 = 10]
    (a) Explain (i) AM (ii) FM
    (b) Differentiate between TDM and FDM
    (c) Explain LAN and MAN

3. **Answer any two of the following :**   [2 × 5 = 10]
    (a) Explain packet switching techniques.
    (b) Draw diagram of OSI model and explain its layers.
    (c) Explain TCP/IP model.

4. **Answer any two of the following :**   [2 × 5 = 10]
    (a) Explain different IP address classes.
    (b) Differentiate between IPv4 and IPv6.
    (c) What is switch in computer network? Explain.

5. **Write short note on any two of the following :**   [2 × 5 = 10]
    (a) Wireless network
    (b) DHCP server
    (c) Cryptography