Shyampur Siddheswari Mahavidyalaya

Mid Term

B. Sc- Computer Science(CMSG), 3rd year General

TIME-1HR.   **FULL MARKS -25**

Answer Any one Group

Group -A

1. Describe different layers of the TCP / IP model.
2. Describe ASK and FSK.
3. Why is digital communication is preferred over analog communication?
4. What do you mean by topology?
5. What do you mean by protocol?
6. What is the function of the modem?

                                                    10+6+2+4+1+2

Group- B

1. An analog signal carries 8 bits in each signal unit.if 1000 signal units are sent per second, find the baud rate and the bit rate.
2. An ASK signal transmits at 4000 bps. The transmission mode is half duplex. Calculate the minimum bandwidth required for its transmission.
3. Describe the physical structure and transmission characteristics of optical fiber cable.
4. Write short notes on twisted pair cable.
5. What is modulation and demodulation?
6. Distinguish between periodic and non-periodic signals.

                                                    5+5+7+5+2+1