MID-SEM EXAM JUNE 2021

MCAC 204: DATA COMMUNICATION AND COMPUTER NETWORKS

Time: 1 Hour   **Total Marks: 15**

Attempt all questions.

1. Define analog to analog conversion? When do we need such a conversion? Describe various ways to accomplish analog to analog conversion.

    [4]

2. What do you understand by modulation? Explain briefly analog-to-digital modulation techniques.

    [4]

3. Suppose that a signal travels through a transmission medium and its power is reduced to one-tenth (1/10). Compute the attenuation (loss of power) in decibels.

    [2]

4. An analog signal has a bit rate of 16000bps and a baud rate of 1000 baud/s. How many signal elements do we need? How many data elements are carried by each signal element?

    [2]

5. Distinguish between a link and a channel in multiplexing.

    [1]

6. Compare and contrast a circuit switched network and a packet-switched network.

    [2]