



Instructions

Please read the following instructions carefully before solving & submitting assignment:

It should be clear that your assignment will not get any credit (zero marks) if:

- The assignment is submitted after due date.
- The submitted assignment does not open or file corrupt.
- The assignment is copied (from other student or ditto copy from handouts or internet).
- Student ID is not mentioned in the assignment File or name of file is other than student ID.

For any query about the assignment, contact at cs601@vu.edu.pk

Marks: 20

Question 1:

[5]

Match the following to one of the five layers.

- Route determination
- Flow control
- Interface to physical world
- Provide access to the network for the end users
- Packet switching

Solution :

- network layer
- transport, data link layers
- application layer, physical layer
- application layer and physical layer
- network layer

Question 2:

[5]

If the throughput at the connection between the device and transmission medium is 5 Kbps, how long does it take to send 400,000 bits out of this device?

Solution :

Kilo means Thousand that's why 5 Kbps means 5000 bits

$$400000\text{bits} / 5000\text{Kbps} = 80\text{s}$$

Question 3:**[5]**

Give the Signal level for each line encoding from following.

- a. Unipolar
- b. NRZ-L
- c. NRZ-I
- d. RZ
- e. AMI

Solution :

- a. Unipolar, 2
- b. NRZ-L, 2
- c. NRZ-I, 2
- d. RZ, 3
- e. AMI, 3

Lectures Covered: This assignment covers Lecture # 08-17

Deadline

Your assignment must be uploaded/submitted till Tuesday 03 May, 2011.