

## **ASSIGNMENT- 2**

### **CS-1845: Data Communications**

**Que#1** Outline the principles that were applied while designing seven layer architecture of ISO-OSI reference model.

**Que#2** Illustrate the mechanism of sliding window flow control. What is piggybacking?

**Que#3** Write down the various networking topologies. List the factors that affect the choice of a network topology and transmission medium in a LAN.

**Que#4** Illustrate connection-oriented & connection-less services with suitable examples.

**Que#5** Define various TCP header fields with the help of a block diagram.

**Que#6** Differentiate between the following given terms.

- a) OSI model and TCP/IP model
- b) Hub and repeater
- c) Bridges and layer-2 switch
- d) 802.11 and 802.16

**Que#7** What do you understand by switching? Discuss the various types of switching techniques.

**Que#8** Describe slotted aloha. Compare slotted aloha with pure aloha. What are the various contention free protocols.

**Que#9** Discuss the following given protocols in brief.

- a) FTP   b) TFTP   c) RPC   d) DNS   e) SMTP   f) SNMP

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