

ET604M - Computer Network

P. Pages : 2

Time : Three Hours



GUG/S/23/13937

Max. Marks : 80

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Assume suitable data wherever necessary.

1. a) Explain the working of three levels of X.25 protocol. **8**
b) Explain Socket programming in details? **8**

OR

2. a) Explain principles of network applications? **8**
b) What is Computer Network and Internet. **8**
3. a) Explain Classification and requirements of switches. **8**
b) Explain following terms in detail. **8**
i) 2-stage switching network.
ii) 3-stage switching network.

OR

4. a) Explain the concept of Three generations of packet switches. **8**
b) Explain in brief. **8**
i) Time Division Switching.
ii) Space Division Switching.

5. a) Explain Remote Procedure call. **8**
b) Compare TCP and UDP. **8**

OR

6. a) Explain Frame Relay in details. **8**
b) Explain: **8**
i) Connectionless Services.
ii) Connectionless Oriented Services.

7. a) Compare Virtual-Circuit & Datagram Subnet. **8**
b) Write short notes on QoS. **8**

OR

8. a) What are the various techniques of congestion control in data gram networks. **8**
b) Explain Hubs and Router in detail. **8**
9. a) Explain the various LAN topologies with relative merits and demerits. **8**
Give suitable example for each.
b) Explain why is slotted ALOHA more efficient than pure ALOHA protocol. **8**

OR

10. a) What is ATM in computer networks? Explain ATM reference model in detail. **8**
b) Explain Multiple Access Control. **8**
