

**ET604M - Computer Network**

P. Pages : 2

Time : Three Hours



**GUG/S/23/13937**

Max. Marks : 80

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- 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

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