

**ET604M : Computer Network**

P. Pages : 1

**GUG/W/22/13937**

Time : Three Hours



Max. Marks : 80

- Notes :
1. All questions carry equal marks.
  2. Assume suitable data wherever necessary.
  3. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) Explain peer to peer file sharing. 8  
b) Explain the types of network and network topology. 8  

**OR**
2. a) Explain the MAN. 8  
b) What is switching? Explain circuit switching and packet switching in short. 8
3. a) Explain about the different types of transmission medias in computer networks. 8  
b) Explain time division switching. 8  

**OR**
4. a) Give the classification and requirements of switches. 8  
b) Explain 8  
i) Buffering ii) Multicasting
5. a) Explain why is slotted ALOHA more efficient than pure ALOHA protocol. 8  
b) Explain user Datagram Protocol. 8  

**OR**
6. a) Explain Remote Procedure call. 8  
b) Difference between connectionless and connection oriented transport. 8
7. a) Explain in detail Address Resolution Protocol (ARP) and Reverse Address Resolution Protocol. 8  
b) Discuss issues in Resource Allocation. 8  

**OR**
8. a) What are the various techniques of congestion control in datagram networks. 8  
b) Explain- 8  
i) Virtual circuit ii) Datagram networks
9. a) Explain Broadcast and Multicast routing. 8  
b) Explain- 8  
i) Ethernet ii) LAN  

**OR**
10. a) What are the network layer design issues? 8  
b) Write short note 8  
i) Hubs ii) Switches

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