B.E. Computer Science & Engineering (Model Curriculum) Semester - VI
TEE202CS - Computer Network

P. Pages : 2

Time : Three Hours

GUG/S/23/13822

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 in detail about ISO-OSI reference model. **8**

b) Explain following terms- **8**

i) Simplex stop & wait protocol

ii) Error and flow control

OR

2. a) Explain LAN, MAN, WAN. **8**

b) Explain in detail ATM (Asynchronous Transfer Mode) Network. **8**

3. a) Explain Link control protocol and network control protocol. **8**

b) Explain transition states of point to point protocol. **8**

OR

4. a) Identify the purpose, features and functions of the following network components. **8**

i) Connectors   ii) Trans receivers

iii) Repeaters   iv) NICs (Network Interface Card)

b) Name some collision free protocols. Explain any one collision free protocol. **8**

5. a) Explain in detail connection-less services implementation in Network Layer. **8**

b) Compare Virtual-Circuit & Datagram Subnet. **8**

OR

6. a) What is routing algorithm? Explain its properties and types. **8**

b) Explain following terms- **8**

i) Internetworking   ii) Firewalls

7.	a)	Explain TCP & UDP protocols in details.	**8**
	b)	Explain the concept of socket and socket programming.	**8**

OR

8.	a)	Explain the concept of addressing in transport layer.	**8**
	b)	Explain three handshake protocol to establish a TCP connection.	**8**
9.	a)	Explain in detail about Electronic mail system.	**8**
	b)	How POP works? What are advantages of IMAP over POP.	**8**

OR

10.	a)	Write short note on XML and XSL.	**8**
	b)	Explain uniform resources locations.	**8**

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