

M.E. First Semester (Information Technology) (Full Time) (C.G.S.)
13420 : Net Centric Computing : 1 NMEF 3

P. Pages : 2

Time : Three Hours



AX - 3472

Max. Marks : 80

- Notes :
1. Assume suitable data wherever necessary.
 2. Illustrate your answer necessary with the help of neat sketches.
 3. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) What is a network address? Explain with reference to IP address. 7
b) List and explain the different networking devices. 6

OR

2. a) Compare the different data transmission modes. 6
b) Explain- 7
a) Multiplexing b) Switching
3. a) What are the different forms of wireless communication? Explain. 6
b) Explain data prioritization and QOS. 7

OR

4. a) Explain the main components of satellite communication. 7
b) Giving its classification explain the fiber optic cables. 6
5. a) List the different routing algorithms and explain any one of them. 8
b) Explain the user Datagram protocol. 6

OR

6. a) List the different network layer protocol for OSI reference model and explain any one of them. 8
b) What is the need of VPN? Explain its working. 6
7. a) What is full duplex ethernet? Explain its operation. 8
b) Differentiate between token ring and a token bus. 6

OR

8. a) What is the need of virtual LAN? Explain. 8
b) Differentiate between Ethernet V2.0 and IEEE 802.3. 6

9. a) What is FDDI? Explain its medium access specification. 7
b) With reference to ISDN explain its two channels channel B and channel D. 6

OR

10. a) What is Frame Relay? Explain its local management interface. 7
b) Compare permanent and switched virtual ckts. 6
11. a) List the different SMDS interfaces and explain any one of them. 6
b) Compare ATM with other technologies. 7

OR

12. a) What do you mean by DSL? Explain its operations. 7
b) Compare SMDS with other LAN-to-LAN technologies. 6
