

## Question Bank (G scheme)

Name of subject: COMPUTER HARDWARE AND NETWORKING

Subject code: 17533

Unit Test : II

Semester: V

Course : EJ/IS/IE

### CHAPTER 4 Introduction to Networks (10 marks)

#### 3 marks

- 1) Explain classification of computer network.
- 2) Draw and explain wide area network.
- 3) Classify the networks by their components roll.
- 4) Define following terms a) client b) server.
- 5) Define the term topology give name of any four topology.
- 6) Give benefits of networks.
- 7) Write network standards for Ethernet, Ring, Token and wireless.
- 8) Draw and explain working of bridges.
- 9) Compare between Hub and Switches

#### 4 marks

- 10) Explain LAN with diagram also writes any two characteristics of LAN.
- 11) Describe the situation where MAN is useful for an organization give an examples.
- 12) Draw and explain peer to peer network with advantages.
- 13) Compare peer to peer network with client/server network.
- 14) Draw neat sketch of bus network and explain. Give its advantages and disadvantages.
- 15) Compare between UTP, STP, Co-axial and fiber optics.
- 16) What are Hubs? How they are classified.
- 17) What are routers? Explain with neat diagram.
- 18) What are firewalls? Explain with neat diagram.

### CHAPTER 5 Networking Devices and Reference Models (12 marks)

#### 3 marks

- 19) Explain OSI reference model with its layered structure.
- 20) Explain the concept of IP address assignment.

#### 4 marks

- 21) Explain the data encapsulation in OSI model.
- 22) Explain TCP/IP reference model with neat diagram.
- 23) Comparison between OSI and TCP/IP reference model.
- 24) State and explain in brief at which layer the following TCP/IP protocols work i) IP ii) ICMP iii) ARP iv) TCP v) FTP vi) UDP.
- 25) Give the steps for the installation of TCP/IP protocols

