

B. Voc. (Hardware and Networking)
First Semester
HWN-104: Network Fundamentals

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

x-x-x

I. Discuss the following:-

- a) Mesh Topology
- b) Coaxial cable and Fiber optics
- c) Domain name server
- d) Subnet Address

(4x2)

UNIT - I

II. What do you mean by Computer Networks? Differentiate between LAN, WAN and MAN. (8)

III. Write short note on:-

- a) Difference between Peer to peer and Client/server network model.
- b) Advantages and Disadvantages of various computer networks.

(2x4)

UNIT - II

IV. How many layers does TCP/IP architecture have? What are the basic limitations of TCP/IP model? (8)

V. Explain the role of Presentation and Session layer in OSI model. (8)

UNIT - III

VI. Discuss the concept of Logical Link control in detail. (8)

VII. Name five network devices and discuss their features in detail. (8)

UNIT - IV

VIII. What is IP address and why it is used? Discuss classes of IP address? (8)

IX. Write short note on:-

- a) Types of MAC address
- b) Purpose of NIC

(2x4)

x-x-x