

B. Voc. (Hardware and Networking)
Third Semester
HWN-304: Routing and Switching

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. Write short notes on the following:

- a) Password Encryption
- b) OSPF
- c) Managed and Unmanaged Switch
- d) VLAN

(4X2)

UNIT - I

II. What is a router? What are its functions? State various router modes.

(8)

III. How to configure the following in a router?

- a) Name of the router
- b) Router Password
- c) Creating a login banner for a router
- d) Saving configuration

(4X2)

UNIT - II

IV. What is routing? Differentiate between static and dynamic routing.

(8)

V. Explain the following dynamic routing protocols:

- a) RIP
- b) EIGRP

(2X4)

UNIT - III

VI. Define switch. Explain various types of switches in detail.

(8)

VII. How to configure the following in a switch?

- a) Setting IP Addresses and Default Gateways
- b) Setting operational speed
- c) Switch port security
- d) Command Mode

(4X2)

UNIT - IV

VIII. Explain the following:

- a) Bridging
- b) LAN Switching

(2X4)

IX. Explain Spanning Tree Protocol (STP). Also explain its port states.

(8)