

1129

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. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Write Short notes on following:-

- a) Router Modes
- b) RIPv1
- c) Sticky MAC Addresses
- d) Switching

(4x2)

**UNIT – I**

II. What is a Router? Explain various types of Routers in detail.

(8)

III. Write a note on the following:-

- a) Name of Router
- b) Password of Router
- c) Password encryption
- d) Saving Configuration & Erasing Configuration

(4x2)

**UNIT – II**

IV. What is Routing? Explain static and dynamic routing in detail.

(8)

V. Explain the following dynamic routing protocols:-

- a) IGRP
- b) OSPF

(2x4)

**UNIT – III**

VI. Give a detailed explanation on switch and its types. What is the role of the switch in a network?

(8)

VII. How to configure the following in switch:

- a) Set host name
- b) Set password for a switch
- c) Set operational speed
- d) Command mode

(4x2)

P.T.O.

(2)

**UNIT – IV**

- VIII. Define Spanning Tree Protocol (STP) and its different port states. (8)
- IX. Explain VLAN and its types? Define its various identification methods of VLAN. (8)

x-x-x