

Exam Code: 1307  
Sub. Code: 9232

2022  
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. Write short note on the following:-

- a) Servers
  - b) MAC Address
  - c) Fibre Optics
  - d) FTP
- (4x2)

**UNIT - I**

II. Write notes on following:-

- a) Client Server Networks
  - b) Hybrid topology
- (2x4)

III. What do you understand by Network? Discuss the characteristics and need of networks. Explain types of networks on the basis of area coverage briefly. (8)

**UNIT - II**

IV. Explain the difference between OSI reference model and TCP/IP model with the help of diagram. (8)

V. What is transmission media? Explain any two unguided media in detail. (8)

**UNIT - III**

VI. Write a note on the following:-

- a) Switch
  - b) Routers
  - c) Token Ring
  - d) Token Bus
- (4x2)

P.T.O.

(2)

- VII. What are networking protocols? Explain various types of protocols used in networking. (8)

**UNIT - IV**

- VIII. What is IP address? Explain the configuration of IP address in PC. (8)
- IX. What do you understand by NIC? Explain the working principle of NIC in detail. (8)

x-x-x