DVOC (Level 4)
Sem 2nd / SD
Subject : Computer Networks

Time : 2 Hrs.   M.M. : 50

SECTION-A

Note: Very short answer type questions . Attempt all ten questions.   (10x1=10)

Q.1   What is the primary purpose of computer networking ?

   a)   Data storage

   b)   Information sharing and communication

   c)   Gaming

   d)   Graphics processing

Q.2   What is the purpose of network addressing ?

   a)   To identify the type of device

   b)   To determine the device's manufacturer

   c)   To uniquely identify devices on a network

   d)   To specify the devices' color

Q.3   Which layer of the OSI model is responsible for providing network services directly to end-users?

   a)   Application Layer

   b)   Transport Layer

   c)   Network Layer

   d)   Data Link Layer

SECTION-B

Note: Short answer type questions. Attempt any six questions out of Eight questions.   (6x5=30)

Q.11   Describe the characteristics that make a network a platform for communication.

Q.12   Explain the concept of routing in the network layer . How does routing work in computer networks?

Q.13   List any five difference between TCP and UDP.

Q.14   Explain various function of application layer of OSI model.

Q.15   What is MAC addressing. What are its various techniques.

Q.16   Briefly explain the architecture if Internet.

Q.17   List any five characteristics of LAN.

Q.18   Explain why communication is considered an essential part of our lives in the context of computer networks.

SECTION-C

Note: Long answer type questions. Attempt any one question out of two questions.   (10x1=10)

Q.19   What are IPv4 addresses. Explain in detail various IPv4 address classes with example.

Q.20   What do you mean by layer-based mode. Explain in brief various models which are based on layered architecture.

Q.4 Which transport layer protocol offers reliable, connection-orinted communication?

a) UDP

b) HTTP

c) TCP

d) SMTP

Q.5 Which of the following is NOT a valid IPv4 address class?

a) Class A

b) Class B

c) Class C

d) Class G

Q.6 What is the format of IP address ?

a) 34 bit

b) 64 bit

c) 16 bit

d) 32 bit

Q.7 What is the role of IPv4 addresses in the OSI model ?

a) Ensuring reliable data transmission

b) Providing a user interface to network services

c) Identifying devices on a network

d) Managing flow control

Q.8 Which of the following is an example of a wide area network (WAN)?

a) Home Wi-Fi network

b) Local Area Network (LAN)

c) The internet

d) Blue tooth connection

Q.9 Which part of a network address typically identifies the network itself?

a) Host portion

b) Subnet mask

c) Network portion

d) Broadcast address

Q.10 What are LANs and WANs in the context of networking?

a) Types of network security Protocols.

b) Programming languages used in networking.

c) Network topologies

d) Types of network technologies.