

No. of Printed Pages : 4 180851/170851/120851  
Roll No. .... /030851

Comp, IT, GE  
Subject:- Computer Networks

Time : 3Hrs. M.M. : 100

## **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 WAN stands for \_\_\_\_\_

  - a) World area network b) Wide area network
  - c) Wireless area network d) Wide access network

Q.2 Which is not a type of topology?

  - a) Bus Topology b) Ring Topology
  - c) Root Topology d) Mesh Topology

Q.3 IP address consist of two parts; these are \_\_\_\_\_

  - a) Net ID, Host ID b) Net ID, Class ID
  - c) Class ID, Host ID d) Class ID, Host ID

Q.4 Which of the following is/are the drawbacks of ring topology?

  - a) Failure of one host, can affect whole network
  - b) If the central hub fails, whole network fails.
  - c) Adding or removing the host disturb the network
  - d) Both (a) & (c)

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- Q.5 What is the full form of UDP?

  - a) User data Protocol
  - b) User Datagram Process
  - c) User datagram Protocol
  - d) Uninterrupted Datagram Protocol

Q.6 Router is used in which layer of OSI model?

  - a) Physical Layer
  - b) Datalink Layer
  - c) Network Layer
  - d) Transport Layer

Q.7 In 10base 5 standard, 10 represents the \_\_\_\_\_ of the Ethernet network.

  - a) Cable length
  - b) Cable type
  - c) Data Rate
  - d) None of the above

Q.8 NIC stands for \_\_\_\_\_

  - a) Network internet Card
  - b) Network identification Card
  - c) Network interface connection
  - d) Network Interface Card

Q.9 Which of the following is a troubleshoot technique?

  - a) Ping
  - b) ipconfig
  - c) traceroute
  - d) All of the above

Q.10 The another name of IEEE 802.3 standard is \_\_\_\_\_

  - a) CSMA/CD
  - b) Wi-Fi
  - c) WiMax
  - d) Bluetooth

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## **SECTION-B**

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is computer network?
- Q.12 On the basic of geographical area, how we can classify the network?
- Q.13 Name different modes of transmission.
- Q.14 What are the advantages of subnetting?
- Q.15 In TCP/IP model, IP address is of how many bytes?
- Q.16 What is SNMP?
- Q.17 What is the use of router in computer networks?
- Q.18 What is the full form of HTTP?
- Q.19 Define the term “encryption”.
- Q.20 PING Command displays network connections. Is this statement being True or False?

## **SECTION-C**

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 What is a computer network? What services are provided by computer networks?
- Q.22 Explain functions of networks layer of OSI model.
- Q.23 Explain the packet switching with the help of an example.
- Q.24 What is mesh topology? What are its advantages and disadvantages?
- Q.25 What is an IP address? What are its types?

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- Q.26 Compare server client and peer to peer network models.
- Q.27 What is multiplexing ? Explain its various types.
- Q.28 What is IEEE standard 802.3? Explain its working principle.
- Q.29 What is a Hub? What are its types?
- Q.30 Differentiate between IPv4 and IPv6.
- Q.31 Explain briefly about server management.
- Q.32 What is troubleshooting in computer networks? What steps are followed in troubleshooting?
- Q.33 Discuss the role of cryptography in computer networking.
- Q.34 How PING and TRACEROUTE are used in network troubleshooting?
- Q.35 What are the advantages and disadvantages of Wi-Fi?

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain TCP/IP model with diagram in detail.
- Q.37 What is Ethernet? Explain its working principle. Also give the electrical specifications of Ethernet.
- Q.38 Write a short note on any two of the following:
  - a) Gateway
  - b) Ring topology
  - c) Bluetooth technology

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