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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) Wirellessarea 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)

- 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

SECTION-B

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

- Q.11 What is computer network?
- Q.12 On the basis 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 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 network layer of OSI model.
- Q.23 Explain 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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