

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

5th Sem / 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 How many layers does OSI Reference Model Has?

- a) 4 b) 5
- c) 6 d) 7

Q.2 _____ Provides a connection-oriented reliable service for sending messages

- a) TCP b) IP
- c) UDP d) All of the above

Q.3 Which of the following is correct regarding Class B Address of IP address

- a) Network bit - 14, Host bit - 16
- b) Network bit - 16, Host bit - 14
- c) Network bit - 18, Host bit - 16
- d) Network bit - 12, Host bit - 14

Q.4 DHCP Server provides _____ to the client.

- a) Protocol b) IP Address
- c) MAC Address d) Network Address

Q.5 _____ is used to test connectivity between two computer systems.

- a) IPCONFIG b) NETSTAT
- c) WIRESHARK d) PING

Q.6 Which of the following is not a type of Ethernet standard.

- a) Traditional Ethernet
- b) Fast Ethernet
- c) Gigabit Ethernet
- d) Super Ethernet

Q.7 What is the first octet range for a class C IP address?

- a) 192-255 b) 192-223
- c) 192-226 d) 128-191

Q.8 Which of the following is not a trouble shooting tool.

- a) PING b) NETSTAT
- c) ROUTERPRINT d) NFC

Q.9 The _____ layer is the layer closet to the transmission medium.

- a) Transport b) Network
- c) Data link d) Physical

Q.10 What is the default mask for a class C Network?

- a) 255.255.255.1 b) 255.255.255.0
- c) 255.255.255.254 d) 255.255.255.255

SECTION-B

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

- Q.11 Define topology.
- Q.12 Hubs are used in _____ topology.
- Q.13 Email is the part of _____ layer in OSI model?
- Q.14 Class B has _____ number of bits to identify the host part.
- Q.15 What is 10BASE T?
- Q.16 Give name of any two Bluetooth devices.
- Q.17 What is the use of PING in network troubleshooting.
- Q.18 Ipv6 consist of 64 bits. (T/F)
- Q.19 OSI model has 7 layers. (T/F)
- Q.20 LiFi stands for _____.

SECTION-C

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

- Q.21 Explain Ipv6 packet format with diagram.
- Q.22 What is the need of network layer? Explain in brief.
- Q.23 Differentiate between centralized and distributed network computing models.
- Q.24 Explain star topology along with its advantages and disadvantages.
- Q.25 Briefly explain IEEE 802.3 architecture.
- Q.26 What is cryptography. List its various techniques.

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- Q.27 Explain in brief various standards of Ethernet.
- Q.28 Briefly explain Bluetooth architecture.
- Q.29 What is Router. Briefly explain its configuration process.
- Q.30 Differentiate IPV4 & IPV6.
- Q.31 Explain TCP/IP structure.
- Q.32 Discuss the working of DHCP.
- Q.33 Differentiate between Circuit packet switching.
- Q.34 Explain Gigabit Ethernet in brief.
- Q.35 Find decimal dotted notation, class, net-id, host-id and network address of following.
 - a. 10010001 00011000 11001110 01110001
 - b. 01110000 10001001 11001100 10000111

SECTION-D

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

- Q.36 What are various IP address classes? Explain in brief each class.
- Q.37 Discuss in brief the functions of various layers of OSI model.
- Q.38 Write short note on:-
 - a) Netstat
 - b) Workgroup

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