

No. of Printed Pages : 4  
Roll No. ....

180851/170851/120851  
/030851

**5th Sem. / Comp, IT, GE**  
**Subject : Computer Networks**

Time : 3 Hrs.

M.M. : 100

**SECTION-A**

**Note: Multiple type Questions. All Questions are compulsory. (10x1=10)**

Q.1 Computer Network is \_\_\_\_\_.

- a) Collection of hardware components and computers
- b) Interconnected by communication channels
- c) Sharing of resources and information
- d) All of the above

Q.2 \_\_\_\_\_ is provided by DHCP Server to the client.

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

Q.3 How many bits are there in the IPv4 address?

- a) 64 bits b) 48 bits
- c) 32 bits d) 16 bits

Q.4 Repeater operates in which layer of the OSI model?

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

Q.5 Which of the following IP addresses can be used as (a) loop - back addresses?

- a) 0.0.0.0. b) 127.0.0.1
- c) 255.255.255.255 d) 0.255.255.255

Q.6 Which one of the following is not a network topology?

- a) Star b) Ring
- c) Bus d) Peer to Peer

Q.7 WiMAX is mostly used for \_\_\_\_\_.

- a) Local areas network
- b) Metropolitan area network
- c) Personal area network
- d) Wide area network

Q.8 The term FTP stands for?

- a) File transfer program
- b) File transmission protocol
- c) File transfer protocol
- d) File transfer protection

Q.9 Which of the following layer of OSI model also called end-to-end layer?

- a) Presentation layer b) Network layer
- c) Session layer d) Transport layer

Q.10 In classless addressing, there are no classes but addresses are still granted in \_\_\_\_\_.

- a) IPs b) Blocks
- c) Codes d) Sizes

### **Section-B**

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

- Q.11 Define peer to peer network.  
Q.12 UTP means \_\_\_\_\_.  
Q.13 TCP/IP model has 7 layers. (T/F)  
Q.14 Class D addresses are used for which purpose.  
Q.15 Masking is used in sub netting. (T/F)  
Q.16 What is full form of IEEE?  
Q.17 Define Access Point.  
Q.18 NIC stands for \_\_\_\_\_.  
Q.19 The IP address "192.88.90.0" belongs to \_\_\_\_\_ class.  
Q.20 Class A has \_\_\_\_\_ number of bits to identify the host part.

### **Section-C**

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

- Q.21 Write a short note on network services.  
Q.22 Explain IPv4 packet format with diagram.  
Q.23 Explain various functions of application layer of OSI model.  
Q.24 Explain various principles of network security.  
Q.25 What do you mean by HUB. Briefly explain its various types.

Q.26 Differentiate between workgroup and domain.

Q.27 Briefly explain IEEE 802.11.

Q.28 Explain in brief the loop back concept.

Q.29 Briefly explain various types of addressing.

Q.30 Differentiate between Thicknet or Thinnet.

Q.31 Briefly explain any two troubleshooting tools.

Q.32 Differentiate between Wifi and LiFi.

Q.33 Explain WLAN architecture along with its diagram.

Q.34 List various IP address classes.

Q.35 Find class, net-id and host-id of the followings.

a) 1.13.72120

b) 200.3.11.27

### **Section-D**

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

- Q.36 What is switching in networking. Explain its various types in brief.
- Q.37 Explain TCP/IP model along with its layers and diagram in detail.
- Q.38 Write short note on :  
a) Bluetooth  
b) WiMax