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**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

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- 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

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### 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.

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- 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) 1.13.72.120
  - 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

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