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181051

**5th Sem / Electronics**  
**Subject:- Computer Networks**

Time : 3Hrs.

M.M. : 100

**SECTION-A**

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

- Q.1 End to end connectivity is provided from host to host in  
a) Session layer      b) Presentation layer  
c) Transport layer      d) Network layer
- Q.2 \_\_\_\_\_ frame the data unit in asynchronous transmission.  
a) Error control bits      b) Start and stop bits  
c) Flags      d) ACK characters
- Q.3 Twisted pair cable consists of \_\_\_\_\_ Conductors.  
a) 4      b) 1  
c) 2      d) None of these
- Q.4 How many layers are there in OSI reference model?  
a) 7      b) 5  
c) 4      d) 6
- Q.5 What is the term for data communication system within a building or campus?  
a) MAN      b) LAN  
c) PAN      d) WAN

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- Q.6 Which of the following network devices stores IP addresses?  
a) Router      b) Switch  
c) Both a and b      d) None of these
- Q.7 In which of the following the data does not need to be encrypted?  
a) Ethernet      b) Wifi  
c) Both a and b      d) None of the above
- Q.8 What is the full form of RAID?  
a) Redundancy array of the independent disk  
b) Redundancy array of the interdependent disk  
c) Redundancy array of the inversion disk  
d) None of these
- Q.9 What is the maximum number of IP addresses that can be assigned to hosts on a local subnet that uses 255.255.255.224 subnet mask?  
a) 14      b) 15  
c) 16      d) 30
- Q.10 \_\_\_\_\_ refers to algorithmic schemes that encode plain text into non readable form.  
a) Huffman code  
b) Transport protocol  
c) network security  
d) Encryption

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### SECTION-B

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

- Q.11 A web client receives requests from a web server. (T/F)
- Q.12 What do you mean by HUB?
- Q.13 Broadband Ethernet uses digital signaling. (T/F)
- Q.14 What is the full form of TCP?
- Q.15 Define subnetting.
- Q.16 What do you mean by a bridge?
- Q.17 Why do we use repeaters?
- Q.18 What is the main difference between LAN and WAN?
- Q.19 What are Gateways?
- Q.20 Name different elements of a computer network.

### SECTION-C

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

- Q.21 What is LiFi? Explain.
- Q.22 Explain Client Server interaction.
- Q.23 Name different kinds of servers. Explain any one type.
- Q.24 Differentiate between FDM and TDM.
- Q.25 What functions are performed by a MODEM?
- Q.26 What are various types of HUB?

- Q.27 Write in brief about RJ11, RJ45, BNC, SC and ST.
- Q.28 Explain the frame format for IEEE 802.3.
- Q.29 What are various electrical specifications used for ETHERNET?
- Q.30 What are the functions of Network Layer and Transport layer?
- Q.31 Explain three modes of transmission.
- Q.32 Explain class C address.
- Q.33 What are the differences between IPV4 and IPV6?
- Q.34 What are the advantages and disadvantages of 10Base 5?
- Q.35 Differentiate between Router and Bridge.

### SECTION-D

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

- Q.36 List the steps of working for VOIP.
- Q.37 Differentiate between TCP/IP and OSI reference model in detail.
- Q.38 Write notes on
  - a) Coaxial and twisted pair cables
  - b) Super netting