SUBJECT: COMPUTER NETWORKS
CLASS: TE **SEMESTER**: V
ORAL QUESTION BANK

Sr. No	Questions
	UNIT 1
1.	Explain TCP/IP protocol suit.
2.	Explain the protocols present at Network layer
3.	Explain the protocols present at Transport layer
4.	Explain the protocols present at Application layer
5.	Explain types of addressing.
6.	What is OSI model?
7.	What is mesh topology?
8.	Explain LAN and MAN.
9.	Difference between hub and switch?
10.	What are the uses of bridge and gateway?
11.	Explain logical addressing.
12.	Explain types of transmission media.
13.	Explain types of network topologies.
14.	What is Ad-Hoc network?
15.	Explain LAN, WAN and MAN
16.	List different network devices.
	UNIT 2
17.	What is data and signals?

18.	What is packet switching? Concepts of packet switching.
19.	Explain digital transmission.
20.	List the techniques for bandwidth utilization.
21.	What is packet switching? Concepts of packet switching.
22.	Explain line coding schemes
23.	Where straight through and cross over cables are used?
24.	What is FHSS and DHSS
25.	Explain Attenuation and noise.
26.	Explain Analog to Digital conversion
27.	Explain Digital Analog to conversion
	UNIT 3
28.	Explain the difference between unicast routing and multicast routing.
29.	What is the difference between distance vector routing, link state routing and path state routing? Concepts of routing algorithms.
30.	Explain inter-domain and intra-domain routing.
31.	Which are the inter-domain and intra-domain routing protocols? Concepts.
32.	Explain multicasting, unicasting and broadcasting.
33.	Explain the difference between multicasting and multiple unicasting.
34.	What are the intradomain multicast routing protocols? Concepts.
35.	What is the significance of IGMP?
36.	What strategies are used while transition from IPv4 to IPv6 addressing?

37.	How we represent the IPv6 addresses?
38.	What is the difference between IPv4 and IPv6 addressing?
39.	Explain error reporting messages, informational messages, neighbour discovery messages and group membership messages related to ICMPv6.
40.	Explain the IGMP messages.
41.	Explain the services of Network Layer.
42.	What is the difference between classless addressing and classful addressing? Concepts related to IPv4 addresses.
43.	Explain the significance of ICMPv4.
44.	Explain routing protocols.
45.	Explain Distance Vector Routing Protocol.
46.	Explain Link State Routing Protocol.
	UNIT 4
41.	What do you mean by process to process delivery?
42.	What do you mean by connectionless and connection-oriented services?
43.	Define UDP and TCP protocols.
44.	Explain transport layer services.
45.	What is the difference between connection oriented and connectionless service/protocols?
46.	Explain stop-n-wait protocol.
47.	How Go-Back-N protocol is different than stop-n wait protocol?
48.	How selective repeat protocol works?
49.	Explain piggybacking.
50.	Explain the difference between TCP and UDP.
51.	Explain in brief the significance of SCTP
	UNIT 5
52.	Name the application layer protocols.

53.	What do you mean by FTP?
54.	Explain HTTP protocol.
55.	What is network virtual terminal?
56.	List the protocols based on client-server paradigm.
57.	Explain the architecture of E-mail.
58.	What is socket programming?
59.	What is SMTP and SNMP?
60.	How URL and browser are different?
61.	What is DNS?
62.	What is DHCP?
63.	Enlist different application layer protocol.
64.	Explain SNMP.
	UNIT 6
65.	What is Static and Dynamic Channel Allocation?
66.	What is the difference between Fast Ethernet and Gigabit Ethernet?
67.	Explain CSMA.
68.	What is CSMA/CD?
69.	Explain Binary Exponential Back -off algorithm.
70.	List IEEE standards for network devices.
71.	What is Pure and Slotted ALOHA?
72.	Explain CSMA/CA
73.	List multiple access protocols
74.	Explain Channel allocation