



B.Tech VI Semester Supplementary Examinations, July 2024

COMPUTER NETWORKS
(ECE)

Maximum Marks: 70

Date:30.07.2024 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks		(10X2M=20 Marks)	CO	Bloom Tx
1	What are the advantages and draw backs of mesh topology?		1	L1
2	What are the Modes of Optical Fiber?		1	L1
3	Write the full form of HDLC and PPP.		2	L1
4	The bit stream given below is obtained using bit stuffing method. What is the data obtained after destuffing 110111111011111000011111011000100101011111011011111101010		2	L1
5	Write full form of AAL		3	L1
6	Discuss how address mapping is performed.		3	L1
7	What are the responsibilities of Transport Layer?		4	L1
8	Draw TCP header format.		4	L1
9	what is WWW?		5	L1
10	Define SNMP protocol.		5	L1

Part-B

Answer All the following questions.		(5X10M=50Marks)		
11	Illustrate neat diagram of ISO/OSI model and explain. [10M]		1	L2
OR				
12	A) With neat sketch explain Circuit switching in detail. [5M] B) Explain the differences between switching methods. [5M]		1	L2
13	A) Describe the following CSMA scheme a. non-persistent b. 1-persistent c. P-persistent. [5M] B) Explain about Go-Back-N ARQ sliding window flow control . [5M]		2	L2
OR				
14	A) Explain the CRC error detection technique using generator polynomial x^4+x^3+1 and data 11100011. [5M] B) Write about token ring network work? In what way is it different from Ethernet. [5M]		2	L2

15	Contrast link state and distance vector routing protocols, giving an example each. [10M]	3	L2
	OR		
16	Explain Logical addressing. [10M]	3	L2
17	Explain the various steps that are followed in releasing a TCP connection. [10M]	4	L2
	OR		
18	A) In regard of QoS how do user related attributes differ from network related attributes in ATM. [5M] B) Explain three way handshaking methods to terminate a connection in TCP. [5M]	4	L2
19	In E-mail system where E-mail messages are stored and why? [10 M]	5	L2
	OR		
20	A) How DNS service maps domain names to IP addresses. [5M] B) define the categories of DNS messages. [5M]	5	L2