

Program/s:

School: School of Engineering and Technology Computer Science and Engineering

Year: 3rd

Semester: V

Examination: End Semester Examination

Examination year: December - 2021

Course Code: CS308

Course Name: COMPUTER NETWORKING

Total Marks: 40 Total Pages: 02

Instructions:

→ Write each answer on a new page.

→ Use of a calculator is permitted/not permitted

Date: 02/12/2021

Time: 11:30 am to 01:30 pm

Q. No.	Details	Marks	COs*	BTL#
Q.1	Attempt all objective based questions.	10		
	(i) The functions of a Logical Link Layer (LLC) are a) Error control b) Flow control		CO 1	BTL 1
	c) Creating and managing the communication link between two devices with the help of the Transport layer.d) All the above	* = ,		
	(ii) The data link layer takes the packets from and sends them into frames for transmission. a) application layer b) physical layer c) network layer d)all of the above		CO 2	BTL 2
/	(iii) CRC abbreviated as a) code redundancy check c) cyclic redundancy check d) cyclic repeat check d) cyclic repeat check	es.	CO 3	BTL 1
	(iv)Multiple access protocol for channel access control a) CSMA/CA b) CSMA/CD c) Both a&b d) None of the mentioned	10 T	CO 3	BTL 2
	(v) size in the IPv4 header. a) 60 bytes long b) 20 bytes long c) 20 to 60 bytes long d) none of the above		CO 3	BTL 1
	(vi) FTP stands for? a) Form transmission protocol b) File transmission protocol c) File transfer protocol d) Form transfer protocol		CO 3	BTL 1
8	(vii) Select the size of the Source and Destination IP address in the IP header. (a) 4 bits b) 16 bits c) 32 bits d) 8 bits		CO 3	BTL 1
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	(viii) Which of the following are transport layer protocols used in networking? a) TCP and FTP b) UDP and HTTP c) TCP and UDP d) HTTP and FTP		СО	1 BTL 1	1
	(ix) The network layer is concerned with of data. a) bits b) frames c) packets d) bytes (x) A 4 byte IP address consists of a) only network address b) only host address c) network address & host address d) network address & MAC address		СО		
Q.2	Attempt All questions.	5			-
	(i) PDU stands for		CO 4	BTL 1	
	(ii) PPP stands for		CO 3		
	(iii) Digital to Analog Conversion techniques name		CO 2		
	(iv) Random access protocols categories		CO 3		
	(v) Layer 2 device names		CO 5		->
Q.3	Attempt any five	25			()
	(i) Write Line coding techniques. Explain any two techniques.		CO 2	BTL 2	
	(ii) Write the Data link layer services. How ARP Protocol work in Data link layer?		CO 5	BTL 3	
	(iii) Explain the TCP and UDP header with diagram.		CO 3	BTL 2	
	 (iv) A bit stream 10011101 is transmittedusing the standard CRC method. The generator polynomial is x³+1 (a) What is the actual bit string transmitted? 		CO 3	BTL 5	
	(b) Suppose the third bit from the left is inverted during transmission. How will receiver detect this error?				
	(v) Write the difference between pure aloha and slotted aloha			5	
	(vi) Explain the IPv4 header format.		CO 4	BTL 4	
	(vii) Explain the Routing. Write different types of routing in network		CO 3	BTL 2	
- 1	layer.		CO 3	BTL 2	
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