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18E3

B. Tech. EXAMINATION, 2024

(Fifth Semester)

(C Scheme) (Main & Re-appear)

CSE

CSE305C

Computer Networks

Time: 3 Hours [Maximum Marks: 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note: Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1.	(a)	Draw and explain the OSI reference model.	
		How different layers work with each other	
		to make the communication	possible
		between computers ?	10

- (b) What does "negotiation" mean when discussing network protocols? Give suitable examples.5
- 2. Differentiate between the following: 15
 - (a) Peer-to-peer and client server network
 - (b) Connection oriented and connectionless services
 - (c) Tree and irregular topology.

Unit II

- 3. Draw and explain the TCP/IP reference model.

 How is it different from OSI reference model?

 15
- 4. Draw and explain all the components of IPv6Header. Also compare it with IPv4.15

Unit III

- 5. Define ALOHA. How does it work? How is efficiency of ALOHA measured? How can it be improved?
 15
- 6. (a) Why are Ethernet and token ring inappropriate for use in WAN? 5
 - (b) Compare and contrast Ethernet, fast Ethernet and Gigabit Ethernet. 10

Unit IV

- 7. Write and explain any two congestion control algorithms over the Internet. 15
- 8. What do you mean by quality of service (QoS)? List and explain any *five* parameters to decide the QoS in a network.

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