

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING(AIML)**

**COMPUTER NETWORKS (22CDPC42)**

**Mid – I Assignment Questions**

**II – B. TECH II SEM**

**Note:** SET-1 writes first 25% students  
SET-2 writes next 25% students  
SET-3 writes next 25% students  
SET-4 writes last 25% students

**ANSWER ALL THE QUESTIONS**

**SET-1**

S.No	Question	BTL	CO	PO	Unit
1	Draw the OSI network architecture and explain the functionalities of every layer in detail.	1	CO1	PO1,PO2,PO12	I
2	Define a Frame? Explain different Frame techniques	1,5	CO1	PO1,PO2,PO12	I
3	Explain the operation of Spanning Tree bridges	5	CO2	PO1,PO2,PO12	II
4	Illustrate the working of CSMA / CD and CSMA/CA	2	CO2	PO1,PO2,PO12	II
5	Distinguish between Connection oriented and connectionless service in network layer.	4	CO3	PO1,PO2,PO12	III

**SET-2**

S.No	Question	BTL	CO	PO	Unit
1	Explain in detail about TCP/IP protocol suite with neat diagram	5	CO1	PO1,PO2,PO12	I
2	Classify the various types of transmission media, highlighting their merits and demerits.	4	CO1	PO1,PO2,PO12	I
3	Give a detail note on the ALOHA protocols	2	CO2	PO1,PO2,PO12	II
4	Relate persistent CSMA with non-persistent CSMA.	3	CO2	PO1,PO2,PO12	II
5	Explain in detail about the design issues in network layer?	5	CO3	PO1,PO2,PO12	III

**SET-3**

S.No	Question	BTL	CO	PO	Unit
1	Explain Elementary Data link layer protocol	5	CO1	PO1,PO2,PO12	I
2	Explain the functions of MAC Sublayer	2	CO1	PO1,PO2,PO12	I
3	Construct the working principle of Switches, Hub and Routers	3	CO2	PO1,PO2,PO12	II
4	(i) Explain the physical properties of Ethernet 802.3 with necessary diagram of Ethernet transceiver and adaptor. (ii) Assess and explain the Ethernet frame format	5	CO2	PO1,PO2,PO12	II
5	(i) Demonstrate the need for sub netting and Why subnetting is necessary? (ii) Express the concept of subnetting in class B network, With suitable example	3	CO3	PO1,PO2,PO12	III

**SET-4**

<b>S.No</b>	<b>Question</b>	<b>BTL</b>	<b>CO</b>	<b>PO</b>	<b>Unit</b>
1	(i)Analyze the flow and error control in DLC (ii)Examine the various issues in the Data link layer.	4	CO1	PO1,PO2,PO12	I
2	Summarize Cyclic Redundancy Check. And Explain and solve CRC division using polynomials.	2	CO1	PO1,PO2,PO12	I
3	Explain the purpose of CSMA with Collision Detection?	5	CO2	PO1,PO2,PO12	II
4	Describe sliding window protocol using Go back n.	2	CO2	PO1,PO2,PO12	II
5	Compare Classful Addressing and Classless Addressing	2	CO3	PO1,PO2,PO12	III

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