

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	Write short notes on: How does a Bridge come to learn on which port the various hosts reside? Explain with examples.	1	CO2	PO1,PO2,PO12	II
2	Suppose the following sequence of bits arrives over a link 1101011111010111110010111110110. Show the resulting frame after any stuffed bits have been removed.Indicates any errors that might have been introduced into the frame.	6	CO1	PO1,PO2,PO12	I
3	Draw the OSI network architecture and explain the functionalities of every layer in detail.	1	CO1	PO1,PO2,PO12	I
4	Illustrate the working of CSMA / CD and CSMA/CA protocol	2	CO2	PO1,PO2,PO12	II
5	Discover the network address in a class A subnet with the IP address of one of the hosts as 25.34.12.56 and mask 255.255.0.0?	4	CO3	PO1,PO2,PO12	III

SET-2

S.No	Question	BTL	CO	PO	Unit
1	In what way you can summarize the purpose of layering	2	CO1	PO1,PO2,PO12	I
2	Write about the Hubs and switches.	1	CO2	PO1,PO2,PO12	II
3	Formulate and discuss the various types of transmission media, highlighting their merits and demerits.	6	CO1	PO1,PO2,PO12	I
4	Relate persistent CSMA with non-persistent CSMA.	3	CO2	PO1,PO2,PO12	II
5	Identify when the forwarding table used	3	CO3	PO1,PO2,PO12	III

SET-3

S.No	Question	BTL	CO	PO	Unit
1	Outline the services provided by the Data link layer	2	CO1	PO1,PO2,PO12	I
2	(i).Summarize Cyclic Redundancy Check.Show an example of a CRC code. (ii).Explain and solve CRC division using polynomials.	2	CO1	PO1,PO2,PO12	I
3	Construct the working principle of Switches, Hub and Routers	3	CO2	PO1,PO2,PO12	II
4	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	With an example network scenario explain the mechanism of Routing Information Protocol and specify the routing table contents.	1	CO3	PO1,PO2,PO12	III

SET-4

S.No	Question	BTL	CO	PO	Unit
1	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	Compare Bit oriented versus Byte oriented protocol.	2	CO2	PO1,PO2,PO12	II
3	Use IEEE 802.3 and IEEE 802.11 to build three differences between wired and wireless LANS.	6	CO2	PO1,PO2,PO12	II
4	(i)Analyze the advantages of optical fiber over twisted pair and coaxial cable. (ii)Explain the major component of a packet switch and their functions	4	CO1	PO1,PO2,PO12	I
5	Classify the advantages of connection oriented services over connectionless services	4	CO3	PO1,PO2,PO12	III
