School of Engineering
First Theory Sessional Examination
Odd Semester (AS: 2024-25)

B. Tech: CSE	[Year: 3]	[Semester : V]

Course Title: Computer Network	Max Marks: 30
Course Code: BCS3503	Time: 1hrs

Instructions: 1-Mention any assumptions made.
2-Notations have usual meaning.

SECTION 'A' Q.N.1. Attempt all parts of the following:		Course Objective	Marks
a)	List various method used in framing.	CO3	1
b)	A host communicates with another host using TCP/IP protocol suite. What is the unit of data sent by received at each of the following layer? a. N/W Layer b. Data Link Layer	CO4	1
c)	Differentiate between IP address and MAC address?	CO1	1
d)	Consider an extremely noisy channel in which the value of single to noise ratio is zero and bandwidth of the channel is 3000Hz. Find the capacity of this noisy channel.	CO2	1
e)	Define Block coding and its purpose.	CO3	1
SECTION 'B' Q.N.2. Attempt any two parts of the following:		Course Objective	Marks
a)	Explain OSI reference model with the help of diagram. Discuss function of each layer. List the merits and demerits of OSI model?	CO4	7.5
b)	Explain design issues of data link layer and also explain different framing methods?	CO2	7.5
c)	Show the comparative analysis of different switching techniques?	CO6	7.5
d)	Explain OSI reference model with the help of diagram. Discuss function of each layer. List the merits and demerits of OSI model?	CO4	7.5