

CONTINUOUS INTERNAL EVALUATION- 2

Dept:CSE	Sem / Div: 4/A &B	Sub:Data Communication	S Code:18CS46
Date:26/05/2021	Time: 3.00-4.30	Max Marks:50	Elective:N
Note: Answer any 2 full questions, choosing one full question from each part.			

Q N	Questions	Marks	RBT	COs
PART A				
1	a What is Switching? Explain Circuit switched network.	10	L2	CO2
	b Explain ASK & FSK in detail.	10	L2	CO2
	c Explain Synchronous transmission with a neat diagram	5	L3	CO2
OR				
2	a What is packet switching? Explain Virtual circuit networks with a neat diagram.	10	L2	CO2
	b Explain with a diagram, Cyclic Redundancy check.	10	L2	CO2
	c Explain Asynchronous transmission with a neat diagram	5	L3	CO2
PART B				
3	a What is multiplexing? Define Synchronous TDM with Data Rate Management strategies.	10	L3	CO2
	b What is Spread Spectrum? Explain Direct Sequence spread spectrum with an example?	10	L2	CO2
	c Four 1-kbps connections are multiplexed together. A unit is 1 bit. Find (a) the duration of 1 bit before multiplexing, (b) the transmission rate of the link, (c) the duration of a time slot (d) the duration of a frame.	5	L3	CO2
OR				
4	a Explain Multiplexing and Demultiplexing process in Frequency Division multiplexing	10	L3	CO2
	b Explain FHSS in detail	10	L2	CO2
	c Define cyclic code. Find the codeword c(x), using CRC given data word 101001111 and generator 10111	5	L3	CO2