Vivekananda College of Engineering & Technology, Puttur [A Unit of Vivekananda Vidyavardhaka Sangha Puttur @] Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

CRM08 Rev 1.10 CSE 28/07/2022

CONTINUOUS INTERNAL EVALUATION - 2

Dept: CSE	Sem / Div: 4/A &B	Sub: Data Communication	S Code:18CS46
Date:05/08/2022	Time: 3.00- 4.30 PM	Max Marks:50	Elective: N

Note: Answer any 2 full questions, choosing one full question from each part.

QN	Questions	Marks	RBT	CO's
	PART A		L	<u> </u>
1 a	What is Spread Spectrum? Explain DSSS bandwidth sharing.	10	L2	CO2
b	With neat diagram, explain virtual circuit networks.	10	L2	CO2
С	Explain with neat diagram, simple parity check code.	5	L2	CO2
	OR			
2 a	What is Spread Spectrum? Explain FHSS with suitable diagram.	10	L2	CO2
b	Explain how message can be sent from one system to another using datagram approach and calculate the total delay with appropriate diagram	10	L2	CO2
С	Four 1 Kbps connections are multiplexed together. A unit is 1 bit. Find: a. Duration of 1 bit before multiplexing. b. Transmission rate of link. c. Duration of each time slot.	5	L2	CO2
	PART B	1	_	
a	What is TDM? Explain in detail.	10	L2	CO2

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	 Explain stop and wait protocol with appropriate diagram.	10	L2	CO3
	Given message = 1011011, $k = 7$ and generator polynomial $P(X) = X^3 + X^2 + X^0$. Find the codeword and design the checker in the receiver using Cyclic Redundancy Codes (CRC).		L3	CO2
	OR			
4	Define multiplexing and demultiplexing. With the diagram explain the frequency Division Multiplexing(FDM) technique.	10	L2	CO2
	Explain the frame format and transition phases of point to point protocol.	10	L2	CO3
	Find the code word using CRC encoder and demonstrate whether the data word is accepted or discarded. The given data is 1001 and the generator is 1011.		L3	CO2

Prepared by:

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