

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

28/06/2022

CONTINUOUS INTERNAL EVALUATION - 1

Dept: CSE	Sem / Div: 4/A & B	Sub: Data Communication	S Code: 18CS46
Date: 06/07/22	Time: 3.00-4.30	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				
1	a What is Data Communication? Explain the fundamental characteristics and components of a data communication system.	10	L2	CO1
	b With neat diagram explain four basic network topologies.	10	L2	CO1
	c Explain different forms of data representation.	5	L2	CO1
OR				
2	a Explain the transmission impairment of media	10	L2	CO1
	b With a neat diagram explain the layers in TCP/IP protocol suit	10	L2	CO1
	c How do you measure performance of a network? Explain	5	L2	CO1
PART B				
3	a Define line coding. Represent the sequence 10100110 using polar and bipolar schemes	10	L3	CO2
	b Compare and explain Serial and Parallel data transmission modes	10	L2	CO2

	c Explain Quadrature PSK and its implementation	5	L2	CO2
OR				
4	a Write about Pulse Code Modulation (PCM) and discuss the steps involved in the quantization process.	10	L3	CO2
	b Explain Amplitude Shift Keying.	10	L2	CO2
	c We have an available bandwidth of 100kHz which span from 200 to 300kHz. What are the carrier frequency and the bit rate if we modulated our data by using ASK with $d=1$?	5	L3	CO2

Radhika
30/6/22

Bhanupriya
30/6/22

[Signature]
30/6/22
HOD

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