R19

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech II Year I Semester Supplementary Examinations December-2021 INTRODUCTION TO COMMUNICATION SYSTEMS

(Computer Science and Engineering)

Open Elective-I

	Open Elective-I	
T	ime: 3 hours Max. Ma	rks: 60
	(Answer all Five Units $5 \times 12 = 60$ Marks)	
	UNIT-I	
1	a Define wired & wireless communication.	6M
	b Compare Analog & Digital Communication systems.	6M
	OR	
2	Write down about super heterodyne receiver (AM RECEIVER).	12M
	UNIT-II	
3	a What are different types of demodulation techniques?	4M
	b What is frequency deviation?	4M
	c How PM & FM related to each other?	4M
	OR	
4	Write down about Wideband FM.	12M
	UNIT-III	
5	Write down the short notes on: Shot noise, Noise figure, SNR, Thermal noise, White Noise.	12M
	OR	
6	a Define Pulse Time Modulation & classify it with proper diagram.	6 M
	b How one can generate a PWM wave?	6M
	UNIT-IV	
7	a How many sampling techniques are there?	6M
	b What is Quantization & Quantization Noise?	6M
	OR	
8	a Compare PCM, DPCM & DM.	4M
	b What is pass band transmission?	4M
	e How many digital modulation techniques are there? Write down the names.	4M
•	UNIT-V	
9	a What is 1G cellular system?	6M
	b Write down about 2G & 2.5G cellular system.	6 M
10	a What is GSM?	3M
10	b What is Base station?	3M
	c What is handover?	3M
	d What is MSC?	3M

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