3090

B. Tech. 4th Semester (ECE) Examination – May, 2023

COMMUNICATION SYSTEM

Paper: PCC-ECE-202-G

Time: Three hours] [Maxi	
Before answering the questions, candidates shoul have been supplied the correct and complete q complaint in this regard, will be entertained after	nuestion paper. No
Note: Attempt five questions in all, select from each Unit. Question No. 1 is questions carry equal makes.	
1. (a) State and prove Sampling Theorem	m. 4
(b) Compare PM & FM.	4
(c) What is Bit rate and Baud rate?	3
(d) What are various sources of noise	2? 4
UNIT - I	
2. (a) Compare analog and digital systems.	communication 8
(b) Discuss various modes of commi	unication. 7
3090-1300 -(P-3)(Q-9)(23)	P. T. O.

3.	W	rite short notes on :	7	
	(a)	Pre-Emphasis & De-Emphasis	8	
	(b)	Noise Figure and its calculation.		
	(-)	UNIT - II		
		Explain QAM.	8	
4.			7	
	- 20	Discuss VSB modulation.	8	
5.	(a)	Discuss Demodulation of FM waves.		
		Discuss vector representation of FM.	7	
		UNIT - III		
		Explain Tracking and Alignment of Receivers.	7	
6.			8	
	(b)	Discuss Armstrong FM transmitter.	table	
7.	(a)	Explain detection of PWM signal with sui	8	
		wave diagram.		
	(b)	Draw and explain working of generation of	PPM	
		signal.	7	
UNIT – IV				
8.	(a)	Explain ASK modulation technique. How it	differs	
	()	with Amplitude Modulation.	8	
	(b)	Discuss Delta Modulation.	7	
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- (a) BPSK
- (b) DPCM (c) M. Ary FSK