Dr. Labran Roja

## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -3 EXAMINATION- 2021

B.Tech V Semester(Backlog one-to-one basis)

COURSE CODE: 10B11EC514

MAX. MARKS: 35

COURSE NAME: COMMUNICATION SYSTEMS

COURSE CREDITS: 04

MAX. TIME: 2 Hours

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Marks are indicated next to the question.

1.	a. Write a short note on the classification of signals.	3
	use signal and energy signal?	2
	with the state of the second in communication systems analysis?	1
		dx(t) =
2.	Find the Fourier series representation for the signal $x(t) = t$ for $-1 < t < 1$ and	(-)
	x(t+2). Plot the magnitude and phase spectrum for this signal.	
3.	lain with neat drawings in time domain and frequency domain for the double	
	sideband modulation and demodulation.	5
4.	mpare all the linear modulation schemes for the bandwidth required, modulator type	
	modulator type, power transmission efficiency along with the required mathematical	
	equations.	4
_	hat do you mean by Frequency modulation and phase modulation? Explain with	
5.	mathematical and block diagram to generate one from the other.	4
6.	the state of the s	s of line
0.	coding schemes.	4
7	it to alife leaving frequency shift keying and phase	shift
7.		
	keying techniques? Write a short note on the coherent detection and non-cohere	5
	detection about these modulation schemes.	
8.	Write a short note on the significance of sampling theorem.	2