Eighth Semester B.E. Degree Examination, November 2020 **Communication System**

Time: 3 hrs

Max. Marks: 80

Tim	ie: 3	hrs.	10.00
		Note: Answer any FIVE full questions irrespective of modules.	
		Module-1	
1	a.	Define Modifiation and explain the need for modulation.	8 Marks)
	b.	Explain Sampling Theorem. (0	8 Marks)
2		With a neat diagram, explain basic communication system.	8 Marks)
2	a. b.	List the differences between Analog and Digital communication.)8 Marks)
		Module-2	08 Marks)
3	a.	With most distance explain Allimining with this and hospital	
	b.	Explain Switching Modulation with circuit diagram, necessary equations and sketch	08 Marks)
4	a.	Evnlain type of AM Waves.	08 Marks)
7	b.	Explain generation of DSBSC waves using a Ring Modulator.	(08 Marks)
	į.	Module-3 Explain Angle Modulation and also like inter operability of FM and PM systems.	(08 Marks)
5	a.	Explain Super Heterodyne Receiver.	(08 Marks)
	b.	Explain Super Neterodyne Receiver.	
6	a.	Evaluar Phase Lock Loop System with heat sketch and equations.	(08 Marks)
U	b.	Describe FM stereo – Multiplexing.	(08 Marks)
		Module-4 Explain Pulse Amplitude Modulation with neat sketches and necessary equations.	(08 Marks)
7		Distriction Multipleying in detail With heat Sketches.	(08 Marks)
	b.	Describe Time Division Multiplexing in detail with hear	
Q	a	With block diagram, explain basic elements of PCM.	(08 Marks)
O	b		(08 Marks)
		Module-5	(08 Marks)
9	a	Briefly explain Pseudo Noise sequences.	(08 Marks)
	b	Explain Slow Frequency Hop.	
1	0 0	. Explain Coherent Binary PSK.	(08 Marks)
1	0 2	Explain Fast Frequency Hop.	(08 Marks)

b. Explain Fast Frequency Hop.