Sem IV | Communication System Inst | 04-06-14

QP Code : NP-19800

					(3 Hours)	[Total Marks	.00
N	В. :	(1)	Question No. 1 i	c Comr	nulcory		
14.		(2) (3)	Attempt any thre	ee quest	tions from the remaini	ng five questions.	24
1.	(a)	Der	rive the power relat	ionship	in AM signal.		5
	(b)				emphasis in FM system	ıs.	5
	(c)	Cor	mpare PAM, PWM	and PPN	M.		5
	(d)	Exp	plain the linear delt	a modul	ation system. What are	the errors associated with DM.	5
2.	(a)	Exp	plain the phase shift	method	d of SSB generation wit	h neat block diagram.	10
	(b)	wat	tts and collector eff n calculate, Maximum unmo	iciency dulated	of 75%. If it is collected	ble collector dissipation of 20 or modulated to a depth of 90%	5
	(c)	Cor	mpare wideband FN	I and na	rrowband FM.		5
3.	(a)	Exp	plain any one metho	d of F.M	1. generation with neces	ssary equations and Waveforms.	10
	(b)	is 2 mo	2.4v, the modulation dulation index whe	index in the fo	is 60. Calculate the max	O HZ and the modulating voltage simum deviation. What is the reduced to 250 HZ and the	10
4.	(a)	Exp (i) (ii)			nodulation (QAM) FSK)		10
	(b)		An amplifier oper	rating ov 2. What		rom 17 to 19 MHZ has a input se voltage at the input of this	6 4
5.	(a)		hat is Telemetry? Exeat diagram.	xplain v	oltage telemetry and cu	arrent telemetry with the help of	10

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	Explain the various communication modes as simplex, half duplex, duplex in detail.	10				
6.	Write short notes on any four of the following:-					
	(a) Multiplexing techniques					
	(b) QPSK transmitter and receiver					
	(c) PCM transmission system					
	(d) Independent sideband transmission					
	(e) FM Noise triangle					
	(f) OSI reference model.					

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