## elex 4 sem fundamentals of communation engineering dec 2015 $\,{\ensuremath{\mathbb Q}}\, P \,\, Code :$

					(3	Hours)		Total Marks:	80
V.,	В. :	(1) (2) (3)	Sol	estion No. 1 ive any three sume suitable	questions f	rom rem		ïve questions.	
1.	Gi	(a) (b) (c)	Wh Def Wh Sta	answers to any at is delta mo fine the terms s at is need of a te and explain ite advantage:	dulation? signal to nois modulation a sampling	? theorem		a2zSubjects.com apperature and noise figure.	20
2.	(a) (b)	Explain Ring modulator.  An Am broadcast station has modulation index which is 0.75 on the average.  What would be its average power saving, if it could go over to single sideband suppressed carrier transmissions, while having to maintain the same signal strength in its reception area.							10 10
3.	(a)		ite r		n rule and	explain	workin	g of superhetrodyne AM	10
	(b)	Ex	plair grar	the Armstron	ig frequency	y modula	ation sys	tem with the help of block	10
4.	(a)	Wi	(i)	espect to radio Sensitivity Selectivity	receiver.	(iii)	Image	frequency spotting	10
	(b)	Ex		n superhetrod	yne radio r				10
5.	(a) (b)	Ex	plair	re PAM, PWN n what is mea nodulation.	M and PPM int by quan	I. tisation	noise a	nd comment on Adaptive	10 10
6.	W	rite s	(a) (b)	notes on any Pre-emphasi Time Division Pulse code in Electromage AGC	s and de-er on multiple nodulation	xing	4	a2zSubjects.com	20