S.B. Roll No	).	

	Communication System-I			
	4th Exam/ECE/2361/6167/6127/May'2015			
Durati	on: 3hrs M.Marks:75			
	Section -A			
Note:	Attempt all questions			
Q.1	Fill in the blanks: 10x1.5=15			
(a)	The electromagnetic signals are also known as			
(b)	(b) The frequency of the modulated signal is 1MHz then minimum antenna height is			
(c)	c) The frequency range for AM broadcasting is fromto			
(d)	is the process of combining the incoming signal with local oscillator signal to produce new signal			
(e)	An radiator is a point source antenna which radiate equally in all the direction.			
(f)	A typical value of IF for a FM receiver is			
(g)	For frequency above 30MHzpropagation is used.			
(h)	LASER stands for			
(i)	(i) The Geostationary satellite placed at a height of aboutkm from the earth's surface.			
(j)	The orbit passing over the north and South Pol is called			
	Section -B			
Q.2	Attempt any five questions. 5x6=30			
(a)	Explain the low level and high level AM Transmitter.			
(b)	Explain the following terms:			
	1S/N ratio 2 Selectivity 3Fidelity 4Image rejection ratio 5Sensitivity			
(c)	Discuss Yagi-Uda antenna in detail.			
(d)	Explain the Duct Propagation.			
(f)	f) Describe the working of LED.			
(g)	g) Explain the folded dipole antenna. Also draw its Radiation Pattern.			
(h)	Explain active and passive satellite.			
	Section -C			
Q.3	Attempt any three questions. 3x10=30			
(a)	Draw and explain the block diagram of Super heterodyne of AM receiver.			
(b)	Explain the Armstrong method of FM Generation.			
(c)	With the help of block diagram explain Optical fiber communication system			
(d)	Explain the satellite communication link in detail with its advantages and disadvantages.			
(e)	Explain the following terms:1Virtual Height 2 Critical Frequency 3 Skip Distance 4			
	Maximum useable Frequency			