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3.B. K	OII INO	

COMMUNICATION SYSTEMS-I 4th/ECE/ETV/EMP/ECE(II)/6127/2361/May'16

Dura	ntion: 3 Hrs M. M	/larks=75	
	SECTION A		
Q1. Fill in the blanks.		1x15=15	
i.	LASER stands for		
ii.	is joint between two fibers.		
iii.	FDMA stands for		
iv.	Crystal oscillator is used for increasing the		
٧.	Pre-emphasis and de-emphasis improves the Ratio.		
vi.	The of the receiver is the ability to reject unwanted signals.		
vii.	The electromagnetic signals are also called		
viii.	. The frequency range of VHF band is from To		
ix.	The orbits passing over the north and the south pole is called		
х.	The FM broadcast frequency range is		
xi.	AGC stands for		
xii.	The unit of attenuation is		
xiii.	The refractive index of core is than that of the cladding.		
xiv.	A Antenna is used as an high frequency transmitting antenna.		
xv.	VCO stands for		
	SECTION B		
Q2	2.Attempt any SIX	5x6=30	
a.	Explain briefly the different types of transmitters?		
b.	b. Explain the concept of simple and delayed AGC.		
c.	 Describe the working of LED. 		
d.	Differentiate between active and passive satellites.		
e.	Explain yagi-uda antenna .		
f.	Explain the need of limiting and de-emphasis in FM reception.		
g.	Discuss different types of optical fibres.		
h.	What is geo stationary satellite? Explain its need.		
	SECTION C		
Q3	3.Attempt any THREE 1	0x3=30	
a.	With the help of block diagram, explain the working of fiber optic communication link. A	Also list a	
	few advantages of fiber optic communication.		
b.	Draw and explain superhetrodyne receiver.		
c.	Differentiate between ground, Sky and space wave propagation.		
d.			
	I) Splicing		
	II) Radiation pattern		
	III) fading		