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S.B. Ro	II No	
	COMMUNICATION SYSTEM-I	
	4 th Exam/ECE/ETV/ECEII/6127/2361/May'17	
Durati	on:3Hrs. M. Marks: 75	
	SECTION - A	
Q1. Fil	I in the blanks: $10x1.5=15$	
a)	A satellite acts merely as a reflector of signal.	
	IF in AM receivers is .	
c)	A joint between two fibers is called	
ď)	Armstrong method uses to generate FM signal.	
e)	AGC stands for	
f)	Crystal oscillator is used for increasing the	
g)	Velocity of EM wave in free space is given bym/s.	
h)	The is the farthest point that can be seen by transmitting antenna.	
i)	is the point in the orbit of a satellite closet to the earth.	
j)	Attenuation is caused by	
	SECTION – B	
Q2. At	tempt any Six Questions: 6x 5=30	
i.	Explain with suitable diagram the working principle of super heterodyne AM receiver.	
ii.	Explain Pre-emphasis and De- emphasis in FM	
iii.	Define antenna array. Briefly explain Broadside array and End fire array.	
iv.	Discuss in detail multiple hop sky wave propagation.	
٧.	Draw and explain the block diagram of Optical fiber communication system.	

- vi. What do you mean by bending losses? Explain in brief
- vii. What do you understand by splicing? Why it is required in optical fiber communication? Explain various types of splicing
- viii. What are the advantages and disadvantages of fiber optic communication?

SECTION-C

Attempt any three Questions.

3x10=30

- Q3. Explain the block diagram of communication system and also write application of communication system.
- **Q4.**Give the comparison between ground, sky and space wave propagation.
- **Q5.** Draw the block diagram and explain the working of AM transmitter.
- **Q6.** Write a short note on:
 - a) Duct propagation
 - b) Yagi- uda antenna