CD	Dall	No
S.D.	ROII	INO

COMMUNICATION SYSTEM-I 4th Exam/ECE/ECE-II/ETV/6127/Nov'18

4 th Exam/ECE/ECE-II/ETV/6127/Nov'18					
Duratio	//arks:75				
SECTION-A					
Q1. Do	as directed.	15x1=15			
a.	The parabolic antenna is directional.				
b.	is the elimination of portion of signal.				
c.	The is located between the troposphere and ionosphere.				
d.	Ground wave propagates in the frequency range of				
e.	APD stands for				
f.	VSWR stands for				
g.	are rays that pass through the axis of the optical fibre.				
	A satellite acts merely as a reflector of signal.				
i.	UHF is known as	_			
j.	is caused by a step change in the refractive index that occurs at the fi	bre joint.			
	Reactance modulator is superior to Armstrong method of FM.(T/F)				
I.	A typical value of IF for a super heterodyne radio receiver is 455KHz. (T/F)				
	Antenna beam width is a measure of directivity of an antenna. (T/F)				
	Apogee is the point on orbit of a satellite closest to the earth. (T/F)				
0.	The ability of a radio receiver to amplify the weakest signal received is	 ·			
	SECTION-B				
O2 A++	tempt any five questions.	5x6=30			
	Explain the working of FM transmitter.	JX0-30			
	What do you mean by isotropic radiator?				
	Define the following:				
	a) S/N ratio b) Sensitivity c) Image Frequency				
iv.	What is an antenna? Write its functions?				
	Explain how are ground wave attenuated.				
	Compare ground, sky and space wave propagation.				
	What is dispersion? Give its types				
	Compare FM receiver with AM receiver.				
SECTION-C					
Q3. Att	tempt any three questions.	3x10=30			
a.	Explain the working principle of super heterodyne AM radio receiver.				
b.	Give construction, characteristics, advantage, disadvantage and applications of	, -			
C.	What are the advantages, disadvantages and applications of optical fibre communication?				
d.	d. Write short notes on the following. (any two)				
	i. Armstrong method				
	ii. Sky wave propagation				
	iii. Geo-stationary satellite				