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T	E		Sem-I (EBSGs) ENTC- RF modelling and RF Modelling and Antennas Q.P. Code: 588000 3)12	927
			RF Modelling and Antennas Q.P. Code: 588000'	CM.
			3)12)	16
			(3 Hours)	
	4	, '	[Total Marks 80]	Men
	N.	В.	1) Question No.1 is Compulsory.	
	٠		2) Solve any three questions from the remaining.	
¥			3) Assume suitable data wherever necessary and justify the assumption.	
www.a2zsubjects.com			Draw suitable diagrams wherever required.	1
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ISZ	1.			5
<u>Ē</u> .		- 20		5
ect		c)		15
S.C		d)	Compare monopole, Dipole and folded dipole antenna.	5
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_	2.	a)		.0
		L	$R_o = 75 \Omega$ , $f_c = 50 MHz$ , $f_c = 48 MHz$ .	02
		D)	Derive rediation resistance of small dipole. Explain its significance.	0
	3.	a)	Derive Friss transmission formula state its significance in wireless communication.	0
			What is maximum power received at a distance of 0.75 km over free space for 1GHz frequency.	
			The system consist of transmitting antenne with 3dB gain and receiving antenna with 17dB gain	
			and antenna is fed with 200 W power.	
		b)	Explain the structure and functioning of Yagi Uda antenna.	0
	4	۵)	Find the radiation nature for an experience of A. L. and C. L. 11.	
	4.	a)	Find the radiation pattern for an array of 4 elements fed with same amplitude and opposite phase. Find its HPBW and BWFN.	0
		b)		
		U)	blaw the structure of fine rostrip attentia. Discuss its characteristics, infiltations and applications.	0
W	5.	a)	Describe parabolic reflector antenna and its different feeding methods.	0
Ž.		b)		0
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<u>5</u> .	6.	W	rite short notes on:	20
www.a2zsubjects.com	•	a)	RF field effect transistor	U
S.C		b)	Binomalarray	
no.		c)	RF behavior of capacitor and inductor	
		d)	Helical antenna	
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