## T.E. / ET / Sem-II / AWP / 25/11/2014

**QP Code: 15074** 

		, V		(3	Hours)	Ţ	[ Total Marks :	100
	N.	(2)	Question No. 1 Answer any fo Assume suitable	ur questions	from the rema	aining six qu	estions.	
1.	. (a)			tions for a p	lane wave in	free space v	with the help of	5
		<ul> <li>Maxwell's equations.</li> <li>Explain principle of pattern multiplication with a suitable example.</li> <li>Explain Radiation resistance, antenna beam width, directive gain, effective area antenna equivalent circuit.</li> </ul>						5 5
	(d)	(d) Explain sky wave propagation.						5
2.		Derive the expression for radiation resistance of an infinitesimal dipole, explaints significance.						10
	(b)	State and	d derive FRISS	transmission	formula.			10
3.	(a)	Explain and derive equations for total electric field, directivity, half power beamwidth in case of two isotrpic point sources of same amplitude but opposite phase.						10
	(b)	What is folded dipole antenna? Explain its operation, equation, properties and applications.						10
4.		practical	applications.	_			tenna. Write its	10
	(b)	Explain v	working of parab	olic reflector	antenna and it	ts different fe	eed mechanisms.	10
5.		experime	entally.		*		n be measured	10
	(b)		space wave prop transmitting and	_			inimum distance be flat.	10
6.	(a)	between t	-	d with a mag	jor to minor l		vith spacing 'd' 26 db. Find its	10
	(b)					ntenna and d	raw its radiation	10
7.		(a) Tropo (b) Retard	otes on (any four ospheric scatter ded potential and the dipole. —	propagation.  Id its applica	7 tions 7			20
			on.:7802-14			fion &	heet	

Course : Prog. 583 to 597 T.E. All Branch (Sem VI) (Even)

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Correction

Q7 Read as "Write short notes on"

- (a) is of 7 Marks
- (b) is of 7 Marks
- (c) is of 6 Marks

Query Update time : 25/11/2014