Q.P. Code: 587501

TURN OVER

			(3 Hours)	[Total Marks : 1	100
N.	В.:	(2) Sol(3) Ass(4) Sup	estion No.1 is compulsory. Ive any Four question from Q. No.2 to Q. No sume suitable data if necessary. Poport your answers with neat sketches / diag cessary.		20,00
1		.1	C 11	32	20
1.	A	(a) Exp pro (i) (ii) (iii) (b) De ang (c) Exp sys (d) Wh	plain, how the following information can be cessing the echoes: Range measurement; Determining the Location of target; Measuring the Velocity of target. fine with neat sketch; Grazing angle, Depression gle; for surface clutter patch. plain, the working of amplitude comparison more tem. nat is the peak power of the Radar, whose average to 200 watts, pulse width of 1µs and PRF of 100 Incomparison.	angle & Incident no-pulse tracking transmitted power	20
2.	(a)	What ar	re the various applications of Radar? Explain.		10
			, how change in PRF can resolve the range amb	iguity problem?	10
3.	(a)		RCS of target? Describe the chief characterist get when its RCS is in; Rayleigh Region; Resonance Region Optical region.	ic of Radar echo	10
	(b)	\ /	nd Explain the operation of simple CW Radar (2	Zero IF radar).	10
4.		Explain	the working of sweep to sweep substractor with the operation of single DLC with block schematics.	th waveform and	10
	(b),	_	e the different properties of sea clutter?		10

	5.	(a)	How range is measured in FMCW Radar? Explain FM-CW Radar with	10	
		(b)	block schematic. What is the limitation of single delay line canceller? How Double delay	10	
			b) What is the limitation of single delay line canceller? How Double delay line canceller overcomes it?		
	6.	(a)	Draw a Block diagram for M.T.I. Radar and Explain the significance of STALO and COHO.	10	
		(b)		10	
			State the classifications of Radar systems and Explain High PRF pulsed Radar system with neat sketch. Write short notes on (any Two): (a) High PRF pulsed Radar (b) Land Clutter (c) Conical scanning, target tracking system (d) Radar Displays		
	7.	V	Vrite short notes on (any Two):	20	
		·	(a) High PRF pulsed Radar	20	
			(b) Land Clutter		
			(c) Conical scanning, target tracking system		
			(d) Radar Displays		
			Les de la companya d		
			CR		
			TECHNICAL CAMPUS,		
			St. Commence of the second		
			E L Par		
		1			
		EZ,			
,	S.) `			
0	2				
MY			SMATHISTAN'S VANSHAR HEO'S		
4					