Q.P. Code: 16EC438												R16		
F	Zeg	g. No:				1						1		
		SIDDHART	TH IN	STITI	TE C)F EN	GINF	ERIN	G &	TECH	INOI		PUTTUR	
						(AU	TON	OMO	JS)	TLU				
		B.Tec	h IV Y	Year Il	Sem	ester S	Supple	ement	ary E	xamin	ation	s May-2	022	
				R	ADA	R & N	AVIC	GATIO	DNAI	AID	S			
т		2 1		(Elect	ronics	s and C	Comm	unicat	ion E	nginee	ring)			1 (0
1	1 Ine	: 3 nours											Max. Ma	arks: 60
				(An	swer a	ull Five	e Units UNI	s 5 x 1 T-I	2 = 6	0 Mar	ks)			
1	a	Explain the op	eratio	n of rac	lar wi	th neat	t block	k diagi	am.				L1	6M
	b	b Explain modified radar range equation.												6M
							0	R						
2	a	Derive the rece	eiver r	noise of	the ra	adar sy	stem.						L2	6M
	b	What is minin	mum	detecta	ible s	ignal a	and e	xplain	how	is it	used	in rada	r L1	6M
		system.					TINIT	-						
2			D		1 1 .	C		1-11						() (
3	a	Describe the tw	vo Ra	dar mo	dulato	ors for	high p	ower	transr	n188101	1.			6M
	D	b Give the importance of noise figure in Radar system.											LI	OIVI
4	a	What is the sol	lid-sta	te dupl	exer a	nd exr	olain it	ts oper	ration	?			L1	6M
	b	Give the importance of conversion loss in Radar system.								L1	6M			
							UNIT	-III						
5	a	a Draw and explain about simple CW radar.											L1	6M
	b	b Differentiate the MTI Radar and CW Radar system.											L1	6M
							0]	R						
6	a	Explain MTI radar with a neat block diagram.										L1	6M	
	b	Explain with a neat block diagram of conical scan tracking radar.									L2	6M		
							UNII	Γ -ΙV						
7	a	Explain the polarization errors in direction findings.										L1	6M	
	b	Explain about	the loc	op ante	nna w	ith sui	table of	expres	sion.					6M
•		OR												() r
8	a	Explain the site	e and i	Instrum	ental	errors	in dire	ection	findii	ngs.	1 1	1		6M
	D	errors in the R.	ADAF	the LF R?	Iour	cours	e radi	o rang	ges ai	e used	a to d	letect the	e LI	6111
							UNI	Γ-V						
9	a	Give the importance of Loran – A and Loran –B system.											L1	6M
	b	Explain about the DECCA navigation system.									L1	6M		
10	0	How the TAC	ANCO		Lagui	nnant	O	K nar	ianta	the D A	DAD	9	12	(M
10	a h	Define the hyp	erholi	AUAP	m of r	pinent	tion at	nd give	igale	orking	DAK	rinle		OIVI 6M
	U.	Define the hyp	croon	e syste		aviga	aon al	iu givi	- 115 V	OIKIII	s princ	upie.	114	UIVI

*** END ***