(T-	7	Roll No).						To	al No. of P	ages: 2	
1-	200	.on in			Ta	E 00	22		M BBS	100		
10	i					E 80		iw /		21	************	
8022	3	B.Tech. VIII - Semester (Main & Back) Examination, April-2019										
			Eld	ctronics	& Cor	nmur	ication	Fngi	neerii	ng	18	
LH.		33								-в		
				OEC2	A Rada	r&	V Eng	gineeri	ng		Sorks · 80	
Tim	e:3	Hou	rs _{\//}	ww.er	sahilk	anva	an co	m	Ma	ximum IV	1arks : 80	
	332			- W	ouriiik	agy	ai 1.00		Min.	Passing IV	[arks : 26	
Insti	ructio	ons to	Cand	dates:		. ^		c		it All	Questions	
	Atte	mpt a	ny Fiv	e questio	ns, seleci	ing O	ne ques	uon jro	m eac	mor nece	Questions ssarv. Any	
	carr	y equ	fat mai	ks. (Sche	matic aid	igram.	s musi c	e snow	n wnei cloarls	I Inits of	ssary. Any quantities	
	data	you j	jeet mi	ssing sui	tably be	assum	ea ana	Sialea (cieuriy	. Omno of		
	usea	//caic	шагеа	must be	siaiea ci	earty.)	5					
		-0401	10			Unit -	- I	000000000000	40000			
1.	a)	Wha	at is the	e necessit	y of delay	y line	cancelle	r? Des	cribe v	arious typ	es of delay	
	SER	lines	s usino	an MTI r	adar.						(2~4-0)	
	b)	Wha	at is bli	nd speed	? Calcula	te the	minimu	ım blin	d speed	for a Rac	lar, Which	
	1	is of	eratin	g at a freq	uency 20)GHz	and sen	ds 1000) pulse	s per seco	nd (8)	
		93		- Le		(OR)				(2×6=12)	
1.	a)	Expl	lain the								(20-12)	
		1)		ift landin ft trackin		c	10					
	b) ·	<i>ii)</i> Evol	ain the	working	of diffe	rent m	arker b	eacons	used	n radar na	vigational	
	,	aids.									(4)	
						Unit -	11	25			7.00	
2.	a)	Expl	ain the	working	of CCE	came	era tube	es and o	compa	re their pe	rformance	
1000.000	11.0	with	other	camera tu	bes	****		7950		8 "	(8)	
9	b)						nt signa	l when	satura	ited yellov	v colour is	
		adde	d to th	e luminar	ice Y sig	nal.	F 49 W W	20 %	95	0.00	(4)	
1	c)	Dete	rmine	the result	ant peak	signa	l when	lumina	nce si	gnal is∙wh	ite and the	
		resul	tant co	lour diffe	erence sig			ed to it.		1	(4)	
	~	122	32	52.5	1220	(OR	· contract of the contract of					
2. (a)		**************************************		and by in	terlac	ea scan	ning? S	now th	at interlac	e scanning	
291				flicker.	• 100000 2 • 000000	•	-form f			·	(8)	
	b)		101 52	iposite vi	aeo signa	ıı wav	eroim i	or attea	ist thre	e successi	ve line and	
	1	indic			1		83	10		· ·	(8)	
	2	*		ne white l	evei		100		- 7			
	7			ng level	£	(4)		8	20	Sagardio		
				al height porch and	l heals -	arch		6. G				
			LIONE	porcii and	a dack po						Contd	
8E8022/2019		019			96	(1)			20,5		[Contd	

Unit - III

	· Out-III
3. a	ensuring compatibility?
b	on weighting factors Give the
3. a	Justify the use of vestigial side band transmission for TV system. Draw the frequency band for channel III and IV in third band and show their respective sound carrier and colour sub carrier frequencies (4+4=8)
b	
3	(8)
	Unit - IV
4. a)	
	IF carrier. Draw the shape of the frequency response curve before detection and after detection.
ы	
, b)	
	(OR)
l. a)	, ()
	i) Horizontal and vertical sync. separator ii) RF tuner
	iii) EHT generator
3	iv) AGC
b)	
	i) Delayed AGC
	ii) Simple diode detector
	iii) Pilot carrier scheme for colour sub carrier signals
	iv) Quadrature modulation in chrominance signal.
. `	
	Unit - V
w	rite the short notes on any Two:
. ii	Modern TV receiver with LCD, LED and plasma displays
ii)	DISHTV
—īii)	more t
111	(OR)
5. a)	Explain transmission and reception process of digital TV system (8)
b)	· · · · · · · · · · · · · · · · · · ·
37	

(2)