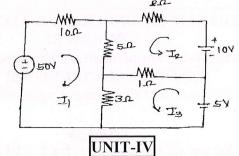
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		B	Tech	II Ye	ar I Sc	emest	er Suj	pplem	entar	y Exa	minat	ions A	August-2021		
						ELE	CTR	ICAL	CIRC	CUIT	S-II				
					(El	ectric	al and	Electr	onics	Engir	neering	g)			
Time	: 3 h	ours											Ma	x. Marks: 60	
									RT-A						
								Quest							
1	a														
	b	b What is the transient response of RL series circuit with dc excitation?													
	C													2M	
		d Write the generalized equations for Y-Parameters.e Define Transfer function.												2M	
	e	Detir	ie Irai	nster t	unction	1.		TD 4.1	D.T. D.					2M	
					()		~11 TX	The second secon	RT-B		50 N (-	1			
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2		D 1							IT-I	1 .1					
2	a												system.	5M	
	b			relatio	onsnip	betwe	een Pr	nase ar	id Lin	e volt	ages, o	curren	ts in delta co	nnected 5M	
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3	loa Fin	nd. The	e brar	nch im	pedan	ces of	f the 1	load a	re Z_R =	=(4+j8	Ω , Z	Y = (3 +	$j4)\Omega$, $Z_B=(5-4)$	$+j20)\Omega$.	
	sec	quence						TINT	TOT TH						
		ъ.	.1				0		IT-II						
4		a Derive the transient response of an RL circuit with dc excitation.b Derive the transient response of an RC circuit with dc excitation.											5M		
	b	Denv	e the	transi	ent res	ponse	or an			with a	c exci	tation.		5M	
5	٨	ceriec	RC (oironit	consi	ata of	rocic)R	nd on	nagita	r of O	1E bog o	constant 10M	
3	A series RC circuit consists of resistor of 10 and capacitor of 0.1F has a constant voltage of 20v is applied to the circuit at t=0.obtain the current equation. Determine the voltage across the resistor and the capacitor. UNIT-III														
6		Eind	tha au	tast m	otnir f	`au +1a a	f-11-	THE PERSON NAMED IN	1-111					5NA	
6	a	rina	me cu	uset II.	atrix f	or the	10110							5M	
						5A (1	WW25	WW	- WWW	W SU	-	sisseen Farb t		
	b	Find	the cu	itset m	atrix f	or the	follo	wing?						5M	
								\leftarrow		>					

OR

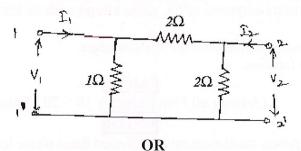
7 Determine mesh currents for the following network using network topology.

10M



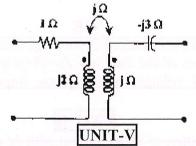
8 Find the Z - parameters for the resistance network shown in figure.

10M



9 Obtain the T parameters of the following two port network.

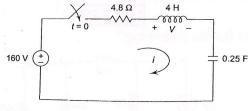
10M



10 The energy stored in the circuit shown is zero at the time when the switch is closed.

10M

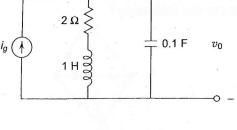
- (A) find the s- domain expression for I
- (B) find the time domain expression for i when t > 0.
- (C) find the s- domain expression for V.
- (D) find the time domain expression for v when t > 0.



OR

11 Derive the numerical expression for the transfer function V_{o} / I_{g} for the circuit shown.

10M



END