

Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code : NAS (16EE203) Course & Branch: B.Tech - EEE

Year & Sem: II-B.Tech & I-Sem **Regulation:** R16

UNIT-I

THREE PHASE CIRCUITS

1.	Derive the relationship of voltage and current in star connected load.	[10M]
2.	Derive the relationship of voltage and current in delta connected load.	[10M]
3.	A three phase balance delta connected load of $(4+j8)$ Ω is connected across a	400V,3¢
	balanced supply. Determine the phase currents and line currents. And also power	drawn by
	the load. Assume RYB phase sequence.	[10M]
4.	A balanced star connected load having an impedance (15+j20) Ω per phase is conn	ected to a
	three phase 440 V,50Hz supply. Find line currents and phase voltages. Assume R	
	sequence and also calculate power drawn by the load.	[10M]
5.	A balanced star connected load of $(4+j3) \Omega$ per phase is connected to a balanced 39	£ 400V
	supply. Find a) active power b) reactive power c)Apparent power.	[10M]
6.	A balanced delta connected load of $(4+j3)$ Ω per phase is connected to a balanced 3	
	supply. Find a) active power b) reactive power c) Apparent power.	[10M]
7.	Three impedances $Z_1=20$ L^{30} , $Z_2=40$ L^{60} , $Z_3=10$ L^{-90} are delta connected to a	
	System. Determine i) phase currents ii) line currents iii) total power consumed by t	
	bystem. Determine 1, phase currents ii, line currents iii, total power consumed by t	[10M]
8.	An unbalanced 4 wire star connected load has a balanced voltage of 400V. The	
0.	$Z_1=(4+j8) \Omega$, $Z_2=(5+j4)\Omega$, $Z_3=(15+j20)\Omega$. Calculate line currents, current in neu-	
	total power.	[10M]
9.	•	
7.	** *	-
	of the load are $Z_R=(4+j8)\Omega$, $Z_Y=(3+j4)\Omega$, $Z_B=(5+j20)\Omega$. Find the line currents and correspondence $A_{SSW}=A_{SSW}=A_{SSW}$	_
10	across phase impedance. Assume RYB phase sequence.	[10M]
10	a) Write the voltage and current relationship in star connected system?	[2M]
	b) Write the voltage and current relationship in star connected system?	[2M]
	c) What are the different methods are used to solve the unbalanced systems?	[2M]
	d) Draw the star connected load.	[2M]
	e) Draw the delta connected load.	[2M]

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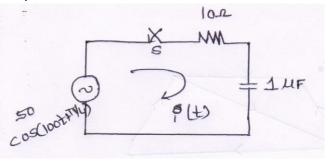
Course & Branch: B.Tech - EEE **Subject with Code:** NAS (16EE203)

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UNIT-II TRANSIENT ANALYSIS

1.	Derive the transient response of an RL circuit with DC excitation.	[10M]
2.	Derive the transient response of an RC circuit with DC excitation.	[10M]
3.	Derive the transient response of an RLC circuit with DC excitation.	[10M]
4.	Derive the transient response of an RL circuit with sinusoidal excitation.	[10M]
5.	Derive the transient response of an RLC circuit with sinusoidal excitation.	[10M]
6.	Derive the transient response of an RC circuit with AC excitation.	[10M]
7.	A series RL circuit with $R=30\Omega$ and $L=15H$ has a constant voltage $V=60V$ appli	ed at t=0.
	Determine the current I, the voltage across the resistor and across the inductor.	[10M]

- 8. A series RC circuit consists of resistor of 10Ω 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. [10M]
- 9. In the circuit shown in fig. Determine the complete solution for the current when switch is closed at t=0,applied voltage is $V(t)=50\cos(10^2t+\pi/4)$, resistance R=10 Ω and capacitance $c=1\mu F$. [10M]



10.a) Define steady state.	[2M]
b) Define transient state.	[2M]
c) Find the Laplace transform of the function $f(t) = 4t^3 + t^2 - 6t + 7$?	[2M]
d) Find L{ $\cos^2 t$ }?	[2M]
e) What is the transient response of RL series circuit with DC excitation?	[2M]

ELECTRICAL CIRCUITS-II



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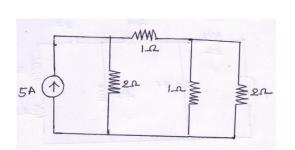
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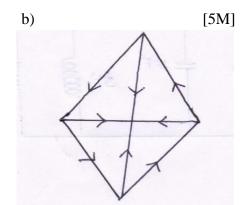
UNIT -III

NETWORK TOPOLOGY

1. Find the cutset matrix for the followings?

[5M] a)





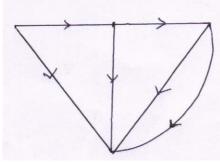
2. Find the tieset matrix for the following?

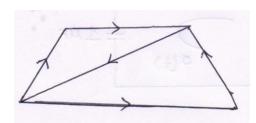
a)



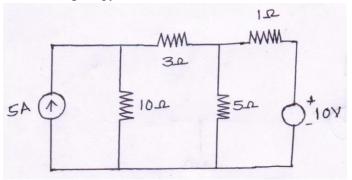
b)

[5M]

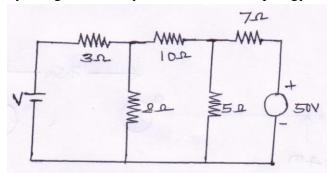




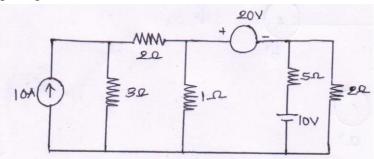
3. Determine current in 10Ω resistor for the following network by using nodal analysis with network topology. [10M]



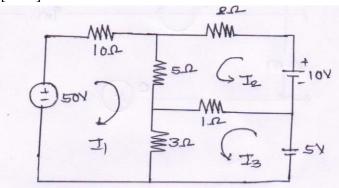
4. Find voltage V for the circuit shown in fig which makes the current in the 10Ω resistor is zero by using nodal analysis with network topology? [10M]



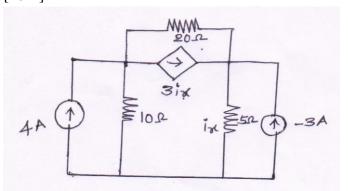
5. Determine current in 5Ω resistor for the circuit shown in figure with network topology. [10M]



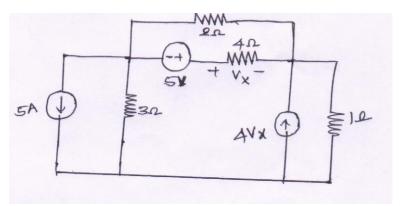
6. Determine mesh currents for the following network using netwok topology. [10M]



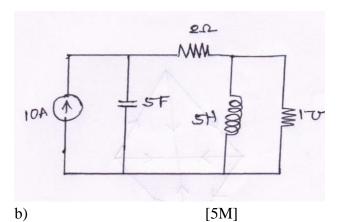
7. Determine following network topology. i_{x} for the using network [10M]



8. For the circuit shown in figure. Find the voltage across 4Ω resistor using nodal analysis with network topology. [10M]



9. Write the procedure to draw the dual network and find dual network for the followings. [10M] a) [5M]



RH 2F 00000 252 3F 40 E

10. a) Define graph. [2M] b)Define planar and non-planar graph. [2M] c) Define duality. [2M] [2M] d)Define cutest. e) Define tieset. [2M]



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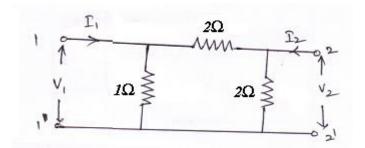
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UNIT-IV

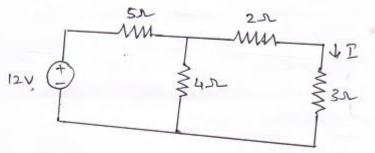
TWO PORT NETWORKS

1. Derive the expressions for Z-parameters in terms of ABCD parameters. [L3] [10M] 2. Find the Z - parameters for the resistance network shown in figure (B) [L1] [10M]



3. Verify Reciprocity Theorem for the network shown in figure (b)

[L3] [10M]



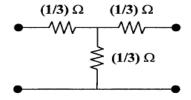
4. Derive the expressions for Y-parameters in terms of ABCD parameters?

[L3] [10M]

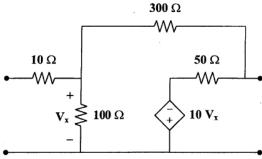
5. Derive the expressions for h-parameters of a two port network?

[L3] [10M]

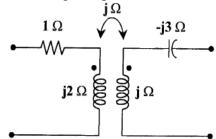
6. Determine Y parameters of the following network



7. Obtain h and g parameters of following two port network.



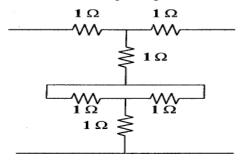
8. Obtain the T parameters of the following two port network



9. Prove the g parameters can be obtained from the z parameters as

$$\mathbf{g}_{11} = \frac{1}{\mathbf{z}_{11}}$$
 $\mathbf{g}_{12} = \frac{-\mathbf{z}_{12}}{\mathbf{z}_{11}}$ $\mathbf{g}_{21} = \frac{\mathbf{z}_{21}}{\mathbf{z}_{11}}$ $\mathbf{g}_{22} = \frac{\Delta_z}{\mathbf{z}_{11}}$

10. Determine the Z parameters of the following two port network.





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UNIT-V FILTERS & SYMMETRICAL ATTENUATORS

1. Explain about different types of filters.

[10M] [10M]

2. Explain about constant K low pass filter.

3. Explain about constant K high pass filter.

- [10M]
- 4. Design a high pass filter having cut of frequency of 1KHz with load resistance of 600ohms.
- 5. Design a low pass filter having cut of frequency of 2KHz with load resistance of 500ohms. [10M]
- 6. Design a low pass filter having cut of frequency of 5KHz with load resistance of 800ohms. [10M]
- 7. Design K-type band pass filter having cut of frequency of 2KHz &10KHz and with load resistance of 500ohms. [10M]
- 8. Design a T- pad attenuator to give an attenuation of 60dB and to work in line of 500 ohms impedance.
- 9. Design a symmetrical bridged T- attenuator with an attenuation of 30 dB and terminated into a load of 500 Ohms.
- 10. Design a π -type attenuator to give 10 dB attenuation and to have a characteristic impedance of 200 Ohms



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UNIT - I

THREE PHASE CIRCUITS

1.	. The voltage between any line and the Neutral point	is called	[1
	A) phase voltage B) line voltage		L	J
	C) Both A&B D) None			
2.	, , , , , , , , , , , , , , , , , , ,		[1
	A) The voltage between any line and the neutral po	int	•	-
	B) The voltage between R line and the neutral point			
	C) The voltage between Y line and the neutral point			
	D) The voltage between B line and the neutral poin			
3.	. The voltage between any two lines is called		[1
	A)Phase voltage B) line voltage		_	-
	C) Both A&B D) None			
4.	. The line voltage is		[]
	A) The voltage between any two lines B)The	voltage between R and Y lines		
	C) The voltage between Y and B lines D) The	voltage between B and R lines		
5.	. The voltages generated by the 3 phase alternator are		[]
	A) Same magnitude and different frequency B)	different magnitude and same free	quency	
	C) different magnitude and different frequency D	same magnitude and same freque	ency	
6.	. In a three-phase system, the voltages are separated l	ру	[]
	A) 45^0 B) 90^0			
	C) 120^0 D) 180^0			
7.	. In a three-phase system, when the loads are perfectl	y balanced, the neutral current is	[]
	A) Zero B) one-third of max	mum		
	C) two-thirds of maximum D) at maximum			
8.	. In a certain three-wire Y-connected generator, the	phase voltages are 2 kV. The mag	gnitude	s of
	the line voltages are		[]
	A) 2,000 V B) 6,000 V			
	C) 666 V D) 3,464 V			
9.	. In a Δ connected source driving a Δ connected load,		[]
	A) load voltage and line voltage are one-third the s			
	B) load voltage and line voltage are two-thirds the			
	C) load voltage and line voltage cancel for a given	phase		

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	D) load voltage, line voltage, and source	e phase voltage are all equal for a given phase	2	
10.	In a Δconnected source feeding a Y-connected		[1
	A) each phase voltage equals the different		_	-
	B) each phase voltage equals the corres			
	C) each phase voltage is one-third the c			
	D) each phase voltage is 60° out of phase			
11.	In a Y-Y source/load configuration, the		[1
	A) phase current, the line current, and the	ne load current are all equal in each phase	-	-
	B) phase current, the line current, and the	-		
	· -	e in phase, and both are 120° out of phase with	h the lo	ad
	current			
	D) line current and the load current are	in phase, and both are out of phase with the pl	hase	
	current			
12.	In a Y-connected circuit, the magnitude	of each line current is	[]
	A) one-third the phase current	B)three times the corresponding phase	current	
	C) equal to the corresponding phase cur	rrent D) zero		
13.	Polyphase generators produce simultane	ous multiple sinusoidal voltages that are sepa	rated[]
	A) certain constant phase angles	B) certain constant frequencies		
	C) certain constant voltages	D) certain constant currents		
14.	Which of the following is unit of current	t	[]
	A) ampere	B) volts		
	C) watts	D) All		
15.	Which of the following is unit of voltage	e	[]
	A) Ampere	B) volts		
	C) watts	D) All		
16.	Which of the following is unit of power		[]
	A) Ampere	B) volts		
	C) watts	D) all		
17.	Which of the following is unit of energy		[]
	A) Ampere	B) volts		
	C) watts	D) joules		
18.	What is the units for Active power		[]
	A) KVA	B) KW		
	C) KVAR	D)none		
19.	What is the units for Reactive power		[]
	A) KVA	B) KW		
	C) KVAR	D)none		
20.	What is the units for Apparent power		[]
	A) KVA	B) KW		
	C) KVAR	D)none	_	_
21.	Units of frequency is		[]
	A) KVA	B) KW		
	C) Hz	D) none		

ELECTRICAL CIRCUITS-II

	QUESTION BAN	K 201	6
22. The power in the balanced Delta con:	nected system is	Г	1
A)3 $V_{ph}I_{ph}cos \emptyset$	$\mathrm{B})\sqrt{3}\mathrm{V}_{\mathrm{ph}}\mathrm{I}_{\mathrm{ph}}\mathrm{cos}\emptyset$	L	J
C) Both A&B	D) None		
23. The power in the balanced Star conne	,	[1
A)3 $V_{ph}I_{ph}\cos \emptyset$	$\mathrm{B})\sqrt{3}\mathrm{V}_{\mathrm{ph}}\mathrm{I}_{\mathrm{ph}}\mathrm{cos}\emptyset$	L	J
C)Both A&B	D)None		
24. Which of the following statement is of	,	Γ]
A) $V_{ph} = V_L$	B) $I_{ph} = I_L$	L	J
C) $V_{ph} = \sqrt{3} V_L$	D) $I_L = \sqrt{3}I_{ph}$		
25. Which of the following statement is of	, 1	[]
A) $V_{ph} = V_L$	$B)I_{ph}=I_{L}$	L	J
C) $V_{ph} = \sqrt{3} V_L$	$D)I_{L} = \sqrt{3}I_{ph}$		
26. In which of the following system, the	· 1	[]
A) star	B) delta	L	J
C) star-delta	D) delta-star		
,	e line voltage is equal to the phase voltage	ſ]
A) Star	B) delta	-	-
C) star-delta	D)delta-star		
28. In which of the following system, the	e line voltage is equal to the $\sqrt{3}$ times of the p	hase vol	tage
		[]
A) Star	B)delta		
C) star-delta	D)delta-star		
29. In which of the following system, the	e line current is equal to the $\sqrt{3}$ times of the p	hase cur	rent
		[]
A) Star	B) Delta		
C) star-delta	D)delta-star		
30. A balance star connected load of (4+)	$(3)\Omega$ per phase is connected to a balanced 3 p	hase 400)V
supply. what is P.F. of the system		[]
A) 0.8 Lag	B)0.6 Lag		
C) 0.7 Lag	D) 0.4 Lag		
· · ·	(3)Ω per phase is connected to a balanced 3 p	hase 400)V
supply. what is total active power	D) 0.51111	L	J
A) 25.6 kW	B) 9.5 kW		
C) 10 Kw	D) 12 Kw	7 1 4 .	41
_	h phase voltage has a magnitude of 90V RMS	s, wnat 1	s tne
magnitude of each line voltage?	B) 90V	L	J
A) 0V C) 156 V	D)180V		
33. In a balanced three-phase load, each		г]
A) an equal amount of power	B) one-third of total power	[J
C) two-thirds of total power	D) a power consumption equal to IL		
·	ch line voltage and the nearest phase voltage,	there is	a
phase angle difference of	on the volume and the nearest phase volume,	[.]
phase angle anticipated of		L	J

A) 0^{0}	B) 30^{0}		
C) 60^{0}	$(D) 90^{0}$		
35. In a certain Y-Y system, the source	phase currents each have a magnitude of 9 A.	Гће	
magnitude of each load current for a	-	ſ]
A) 3A	B) 6A	-	-
C) 9A	D)27A		
36. In a Y-connected circuit, each line	voltage are shifted withangle of that of	phase	
voltages		[]
A) 30^0 lead	B) 30^{0} lag		
C) 60^0 lead	D) 60^0 lag		
37. In a Δ -connected circuit, each line of	currents are shifted withangle of that of	phase	
currents		[]
A) 30^0 lead	$\mathrm{B})30^{0}\mathrm{lag}$		
C) 60^0 lead	D) 60^0 lag		
38. Two wattmeter method of power me	easurement can be used to measure power in	[]
A) Balance circuits	B) Un-balanced circuits		
C) Both A & B	D) none		
39. Three wattmeter method of power r	measurement can be used to measure power in	[]
A) Balance circuits	B) Un-balanced circuits		
C) Both A & B	D) none		
40. Which of the following methods are	e used to solve the unbalance 3 wire star connec	ted load	
		Г	1
		L	J
A) Star to delta transformation	B) millimen's theorem		
C) Loop method	D) ALL		

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<u>UNIT – II</u>

TRANSIENT ANALYSIS

1.	Transient behaviour occurs in any circuit when			[]
	A) There are sudden changes of applied voltages B)the voltage so		B)the voltage source is	shorted	d
	C) The circuit is connected or disconnected from the supply D) ALL				
2.	The transient response occurs			[]
	A) Only in resistance circuit	B) only I inductive c	ircuits		
	C) Only in capacitive circuits	D) both B& C			
3.	In steady state current and voltages			[]
	A) Changes w.r.t to time	B) doesn't changes w	r.r.t time		
	C) both A& B	D) none			
4.	In transient state current and voltages			[]
	A) Changes w.r.t to time	B) doesn't changes w	r.r.t time		
	C) both A& B	D) none			
5.	Inductor doesn't allows sudden changes in	l		[]
	A) Currents	B) voltages			
	C) Both A & B	D) none			
6.	Capacitor doesn't allows sudden changes	in		[]
	A) Currents	B) voltages			
	C) Both A & B	D) none			
7.	Inductor allows sudden changes in			[]
	A) Currents	B) voltages			
	C) Both A & B	D) none			
8.	Capacitor allows sudden changes			[]
	A) Currents	B) voltages			
	C) Both A & B	D) none			
9.	The time constant of series RL circuit is			[]
	A) LR	B) L/R			
	C) R/L	D) ALL			
10.	The time constant of series RC circuit is			[]
	A) 1/RC	B) R/C			
	C) RC	D) ALL			

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1.	L/R is time constant of which of	the following circuit		[]
	A) Parallel RC circuit	B) series RC circuit			
	C) Series RL circuit	D) parallel RL circuit			
2.	RC is time constant of which of	the following circuit		[]
	A) Parallel RC circuit	B) series RC circuit			
	C) Series RL circuit	D) parallel RL circuit			
3.	When series RL circuit is conne inductor L at $t=0^+$ is	cted to a voltage source V at t=0,	the current passing	through [the
	A) V/R	B) infinity		L	J
	C) Zero	D) V/L			
1.	,	cted to a voltage source V at t=0,	the current passing	through [the
	A) V/R	B) Infinity			
	B) Zero	D) V/L			
5.	capacitor C at t=0 ⁺ is	cted to a voltage source V at t=0,	the current passing	through [the
	A) Infinity	B) zero			
	C) V/R	D) V/WC			
Ó.	When series RC circuit is conne capacitor C at $t=\infty$ is	cted to a voltage source V at t=0,	the current passing	through [the
	A) Infinity	B) zero			
	C) V/R	D) V/WC			
7.	When series RC (R=10 Ω ,C=2 μ F)) circuit is connected to a voltage s	source V at t=0, wha	t is the t	ime
	constant of the network			[]
	A) 2 ms	Β) 2 μs			
	C) 0.02 ms	D) 0.2μs			
3.	When series RL (R= 10Ω ,L= 5 mH constant of the network	() circuit is connected to a voltage	source V at t=0, wha	t is the t	_
	A) 50 ms	Β) 50 μs			
	C) 0.5 ms	D) 5 μs			
€.	When series RC (R=10 Ω ,C=10 μ	(F) circuit is connected to a volta	ige source V at t=0,	the cur	rent
	passing through the capacitor C a	t t=0.1ms is		[]
	A) Infinity	B) zero			
	C) V/R	D) 0.63V/R			
).	When series RL (R= 10Ω ,L= 10 m	nH) circuit is connected to a volta	age source V at t=0,	the cur	rent
	passing through the inductor L at	t=0.1s is		[]
	A) Infinity	B) zero			
	C) V/R	D) 0.63V/R			
l.	The transient current in an RLC of	circuit is over damped when		[]
	A) $\left(\frac{R}{2L}\right)^2 > \frac{1}{LC}$	$B)\left(\frac{R}{2L}\right)^2 = \frac{1}{LC}$			
,	C) $\left(\frac{R}{2L}\right)^2 < \frac{1}{LC}$	D) None		г	1
۷.	The transient current in an RLC of A) $(\frac{R}{2L})^2 > \frac{1}{LC}$	B) $\left(\frac{R}{2L}\right)^2 = \frac{1}{LC}$		[J
	FI FCTRICAL CIRCUITS-II	ZL LU			πο 6

C)
$$\left(\frac{R}{2L}\right)^2 < \frac{1}{LC}$$

D) None

23. The transient current in an RLC circuit is critically damped when

ſ

1

A)
$$\left(\frac{R}{2L}\right)^2 > \frac{1}{LC}$$

B)
$$\left(\frac{R}{2L}\right)^2 = \frac{1}{LC}$$

C)
$$\left(\frac{R}{2L}\right)^2 < \frac{1}{LC}$$

D) None

24. If $(\frac{R}{2L})^2 > \frac{1}{LC}$ condition gives _____ response in RLC series circuit

ſ 1

A) over damped

B) under damped

C) critically damped

D) none

25. If $(\frac{R}{2L})^2 = \frac{1}{LC}$ condition gives _____ response in RLC series circuit

]

A) over damped

B) under damped

C) critically damped

D) none

26. If $(\frac{R}{2L})^2 < \frac{1}{LC}$ condition gives _____ response in RLC series circuit

]

]

1

]

1

]

]

]

A) over damped

B) under damped

C) critically damped

D) none

27. The Laplace transform analysis gives

Γ B) frequency response only

A) The time domain response only B) Both A& B

D) NONE

28. The laplace transform o a unit step function is

1

A) 1/S

B) $1/S^2$

D) $\frac{1}{S+A}$

29. The laplace transform o a unit ramp function is

Γ

A) 1/S

B) 1

C) $1/S^2$

D) $\frac{1}{S+A}$

30. The laplace transform of the first derivative of a function f(t) is

Γ

A) F(S)/S

B) SF(S)-F(0)

C) SF(S)-F(0)

D)F(0)

31. The laplace transform of the integral of a function f(t) is

A) F(S)/S

B)SF(S)-F(0)

C) SF(S)-F(0)

D) F'(0)

32. Laplace transform of the function e^{-20t} is

A) $\frac{1}{s-20}$

B) s+20

C) s - 20

D) $\frac{1}{s+20}$

33. Laplace transform of cos2t

B)) $\frac{1}{S^2-4}$

34. Laplace transform of sin4t

Γ

A) $\frac{1}{S^2+16}$ C) $\frac{4}{S^2+16}$

B) $\frac{1}{S^2 - 16}$ D) $\frac{2}{S^2 + 16}$

35. The laplace transform of $e^{5t}f(t)$ is

A) F(s)

- B) F(S-1)
- C) F(S/5)
- D) F(S-5)
- 36. The inverse transform of $\frac{6}{s^4}$ is

]

A) 3

B) t³

C) t^2

- D) 3t
- 37. The inverse laplace of $\frac{2}{s+3}$ is

[

- B) 2e^{-3t}

- A) 2(t+3) B) 2e^{-3t}
 C) e^{-3t} D) 2e^{-t}
 38. Laplace transform of damped sinewave e^{-3t} sin50t is

]

- A) $\frac{1}{(s+3)^2+50^2}$ B) $\frac{s}{(s+3)^2+50^2}$ C) $\frac{50}{(s+3)^2+50^2}$ D) $\frac{50^2}{(s+3)^2+50^2}$ 39. The initial value of $\frac{2s+1}{s^4+8s^3+16s^2+s}$ is

]

A) 2

B) infinity

C) zero

- D) 1
- 40. The initial value of 20-10t-e^{-25t} is

1

A) 20

B) 19

C) 10

D) 25



Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (OBJECTIVE)

Subject with Code: NAS (16EE203) Course & Branch: B.Tech - EEE

Year & Sem: II-B.Tech & I-Sem **Regulation:** R16

<u>UNIT – III</u>

NETWORK TOPOLOGY

1. A tree has		[]
A) A closed path	B) no closed path		
C) Path	D) none		
2. The no. of branches in tree is	than the no. of branches in a graph	h.[]
A) More	B) Less than		
C) Equal	D) None		
3. The no. of nodes in tree is	than the no. of nodes in a graph.	[]
A) More	B) Less than		
C) Equal	D) None		
4. In a plane surface, if there is no tw	o branches cross each other in graph, then th	ie grapl	n is
called		[]
A) Planar	B) Non-planar		
C) Both A&B	D) None		
5. Which of the following is a non-pl	anar graph?	[1
		L	-
A)	В)		
C)			
	D)		
6. Which of the following is a planar	graph?	[]
A)	В)	_	_

C)				
		D)		
			7	
7. In a plane surface, if two br	onches are cros	es each other in graph then th	ne graph is cal	lad
7. In a plane surface, if two of	anches are cros	is each other in graph, then th	ie grapii is cai	100
			L	J
A) Planar	B) Non	-planar		
C) Both A&B	D) Non	e		
8. Planar graph has			[]
A) Cross over branches	B) no c	ross over branches		
C) Both A&B	D) none	2		
9. Non-Planar graph has			[]
A) Cross over branches	B) no c	ross over branches		
C) Both A&B	D) none	2		
10. Which of the following state	ement is correct	İ	[]
A) b=e-1	B) b=n-		_	-
C) b=n+2	D) b=l+			
11. Which of the following state	· ·		[]
A) l=e-1	B) 1=b-		L	_
C) l=n+2	D) l=e-l			
12. The incidence of elements to			matrix.	.[].
A) Cutset	B) Ties			
C) Incidence matrix	D) Non			
13. Incidence matrix contains	<i>'</i>		[1
A) nodes, branches	B) node	es. links	L	J
C) links, nodes	D) Non			
14. The value in the matrix A is	,	_	Г]
A) The element is incident to		B) The element is far away	to the node	J
C) The element is not connec		· · ·		
15. The value in the matrix A is		b) none	г]
A) The element is incident to	-	B) The element is far away	to the node	J
C) The element is not connec		D) none	to the node	
16. The value in the matrix A is		b) none	Г]
A) The element is incident to		B) The element is far away	L to the node	J
C) The element is not connec		•	to the node	
·		D) none	г	1
17. The dimension of incidence				J
A) n x e	B) n x b			
C) n x l	D) n x ((U-1)	r	1
18. The dimension of incidence	IIIautix 1S		L	J

A) n x e	B) (n -1) x e	
C) n x (e -1)	D) (n -1) x (e-1)	
19. The branches of a tree is called		[]
A) Cord	B) twing	. ,
C) Both A& B	D)none	
20. The links of a tree is called	,	[]
A) Cord	B) twing	. ,
C) Both A& B	D)none	
21. Which of the following is the prop	,	[]
	atrix is zero B) The sum of the values in row i	
zero	,	
C) Both A&B	D) None	
22. The tieset schedule gives relation	<i>,</i>	[]
A) Branch currents and link current		
C) Branch currents and link voltage	,	
23. The cutset schedule gives relation	ŕ	[]
A) Branch currents and link current		
C) Branch voltages and link current	,	
,	of trees can be calculated using the formulae.	[]
A) det[BA] B) det		. ,
C) $det[A^TA]$ D) det		
25. The fundamental loop of a tree is		[]
A) Cutset B) Ti		. ,
C) Both A&B D) No		
26. No. of cutsets are equal to the no.		[]
A) Branch B) lo		. ,
C) link D) No	-	
27. No. of tiesets of a tree is equal to t		[]
A) Branch B) lo		
C) link D) N	-	
28. The direction of cutset is in the direction		[]
A) Branch B) le		
	None	
29. The direction of tieset is in the dir		[]
A) Branch B) le		. ,
	None	
30. The dimension of tieset matrix is		[]
A) 1 x e B) b x		. ,
C) 1 x n D) n x	:1	
31. The dimension of cutset matrix is		[]
A) 1 x e B) b x		
C) 1 x n D) n :		
32. The no. of cutsets of the below gra		[]
A) 1 B) 2		_

Electrical circuits-II

C) 3

D) 4



33. The no. of tiesets of the above graph is]
A) 1	B) 2		
C) 3	D) 4		
34. The no. of lin	iks of above graph is	[]
A) 1	B) 2		
C) 3	D) 4		
35. The no. of tw	vings of above Graph is	[]
A) 1	B) 2		
C) 3	D) 4		
36. The no. of branches of tree of above graph is]
A) 1	B) 2		
C) 3	D) 4		
37. The no. of branches of tree of above graph is		[]
A) 1	B) 2		
C) 3	D) 4		
38. The no. of cords of tree of above graph is]
A) 1	B) 2		
C) 3	D) 4		
39. Mesh analysis based on		[]
A) KCL	B) KVL		
C) Both	D) none		
40. Mesh analysis based on]]

A) KCL

C) Both

B) KVL

D) none



Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (OBJECTIVE)

Subject with Code: NAS (16EE203) Course & Branch: B.Tech - EEE

Year & Sem: II-B.Tech & I-Sem **Regulation:** R16

<u>UNIT – IV</u>

TWO PORT NETWORKS

1. Which parameters are widely used in transmission line theory	[]
A) Z parameters B) Y parameters C) ABCD parameters D) h parameters	
2. For a two port network to be reciprocal	[]
A) $Z_{11} = Z_{22}$ B) $h_{21} = -h_{12}$ C) $Y_{21} = Y_{22}$ D) AD-BC = 0	
3. The h parameters h_{11} and h_{12} are obtained	[]
A) by shorting the output terminals B) by opening input terminals	
C) by shorting input terminals D) by opening output terminals	
4. Two ports containing sources in their branches are called	[]
A) passive ports B)two ports C) active ports D)none	
5. In Z parameter V_1 , V_2 are	Гі
A) Independent variables B) dependent variables C) both A and B D) none	L J
6. Which of the parameters widely used in transmission line theory	
A) Z parameters B) ABCD parameters C) Y parameters D) H parameters	
7. Which of the following is two port network	1
7. Which of the following is two port network	.]
, 1 2	
who who	
A) (D) No	one
8. In Z parameters are also called as	1
A) short circuit admittance parameters B)short circuit impedance parameters	-
C) open circuit impedance parameters D) open circuit admittance parameters	
9. In Y parameter I_1, I_2 are	[]
Dependent variables B)Independent variables C)Both A & B D) None	
10. In describing the transmission parameters	[]
A) The input voltage and current are expressed in terms of output voltage and current	,
B) The input voltage and output voltage are expressed in terms of output current and input curr	
C) The input voltage and output current expressed in terms of input current and output voltage 11. If the two port network is reciprocal then	D) none
A) $Y_{11} = Y_{22}$ B) $Y_{12} = Y_{22}$ C) $Y_{12} = Y_{11}$ D) $Y_{12} = Y_{21}$	J
12. Y parameters are also called as	Г 1
A) Short circuit admittance parameters B) short circuit impedance parameters	L J
C) Open circuit admittance parameters D) open circuit impedance parameters	
13. Which parameters are widely used in transmission line theory	[]
A) Z parameters B) Y parameters C) ABCD parameters D) H parameters	L J

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14. Y parameters are also called asA) Short circuit admittance parametersB) short circuit impedance parameters	[]
C) Open circuit admittance parameters D) open circuit impedance parameters 15. Two ports containing sources in their branches are called	[]
A) Passive ports B) two ports C) active ports D) none		
16. If the two port network is reciprocal then	[]
A) $Z_{11} = Z_{22}$ B) $Z_{12} = Z_{21}$. C) $Z_{11} = Z_{12}$. D) All	г	1
17. If the two port network is reciprocal then A) $Y_{11} = Y_{22}$ B) $Y_{12} = Y_{22}$ C) $Y_{12} = Y_{11}$ D) $Y_{12} = Y_{21}$	[J
18. Y parameters are also called as	[1
A) Short circuit admittance parameters B) short circuit impedance parameters	L	J
C) Open circuit admittance parameters D) open circuit impedance parameters		
19. Transmission parameters are also called as	[]
A) Y parameters B) General circuit parameters C) H parameters D) z parameter	rs	_
20. A Two port network is simply a network inside a black box, and the network has only	[]
A) Two terminals B) two pair of terminals C) two pair of ports D) two pair of accessible to		
21. The no. of possible combinations generated by four variable taken two at a time in two-port n	ELWOIK .	18
A) 6 B) 3 C) 2 D) 5	L	J
22. If the two port network is reciprocal then	ſ	1
A) $Z_{11} = Z_{22}$ B) $Z_{12} = Z_{21}$. C) $Z_{11} = Z_{12}$. D) All		•
23. In Y parameters I_1 , I_2 are	[]
A) Independent variables B) dependent variables C) both A and B D) none		
24. In Y parameters V_1 , V_2 are	[]
A) Independent variables B) dependent variables C) both A and B D) none	r	,
25. In ABCD parameters V ₁ , I ₁ are	[]
A) Independent variables B) dependent variables C) both A and B D) none	г	7
26. In ABCD parameters V ₂ , I ₂ are A) Independent variables B) dependent variables C) both A and B D) none	[J
27 If z-parameters are $z_{11} = 40$, $z_{22} = 50$ and $z_{12} = z_{21} = 20$, what would be the value of y_{22}	in the	
matrix form of y-parameters given below?	; III tile	
matrix form of y parameters given octow.		

$$\begin{bmatrix} \frac{5}{160} & -\frac{2}{160} \\ -\frac{2}{160} & ? \end{bmatrix}$$

A) 4 / 160 B) 5 / 160 C) 10 / 160

D) 15 / 150

28) If the two ports are connected in cascade configuration, then which arithmetic operation should be performed between the individual transmission parameters in order to determine overall transmission parameters?

A) Addition B) Subtraction C) Multiplication D) Division

29) Which among the following represents the precise condition of reciprocity for transmission parameters?

A) AB - CD = 1 B) AD - BC = 1 C) AC - BD = 1 D) None of the above

30) Which is the correct condition of symmetry observed in z-parameters?

A)
$$z_{11} = z_{22}$$
 B) $z_{11} = z_{12}$ C) $z_{12} = z_{22}$ D) $z_{12} = z_{21}$

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31) An open circuit reverse voltage gain in h-parameters is a unitless quantity and generally equivalent to

- A) V_1 / I_1 (keeping $V_2 = 0$) B) I_2 / I_1 (keeping $V_2 = 0$) C) V_1 / V_2 (keeping $I_1 = 0$) D) I_2 / V_2 (keeping $I_1 = 0$)
- 32. In the circuit shown below, the network N is described by the following Y matrix: Y = $\begin{bmatrix} -0.01s \\ 0.1s \end{bmatrix}$ The voltage gain V2/V1 is 0.1s10.01s
- B) -1/90 C) -1/99 A) 1/90 D) -1/11 [GATE 2011: 2 Marks]
- $\begin{bmatrix} 0.2 \angle 0 & 0.9 \angle 0 \\ 0.9 \angle 0 & 0.1 \angle 0 \end{bmatrix}$ Then the network is 33. If the scattering matrix [S] of a two port network is [S] =
 - B) Lossless but not reciprocal A) Lossless and reciprocal
- C) Not lossless but reciprocal D) Neither lossless not reciprocal[GATE 2010: 1 Mark]
- 34. For a 2-port network to be reciprocal,
 - A) z11 = z22B) y21 = y12C) h21 = -h12D) AD - BC = 0 [GATE 1992: 2 Marks]

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 $Siddharth\ Nagar,\ Narayanavanam\ Road-517583$

QUESTION BANK (OBJECTIVE)

Subject with Code: NAS (16EE203) Course & Branch: B.Tech - EEE

Year & Sem: II-B.Tech & I-Sem **Regulation:** R16

UNIT - V

FILTERS & SYMMETRICAL ATTENUATORS

 A) Passes all low frequencies B) attenuates all high frequencies C) passes all frequencies up to cut-off frequency and attenuates all other frequencies D) none A high pass filter is on which A) Passes all high frequencies B) attenuates all low frequencies C) Attenuates all frequencies below a designated cut-off frequency, and passes all frequencies above cut off D) none 3. A band stop filter is one which A) Attenuates frequencies between two designed cut off frequencies and passes all other freq B) Passes frequencies between two designated cut off frequencies and attenuates all other frequencies C) Passes all frequencies D) None 4. An ideal filter should have A) Zero attenuation in pass band C) Zero attenuation in attenuation band D)infinite attenuation in attenuation band 5. The propagation constant of a symmetrical T-section and π-section are A) Same B) not same C) Equal to 1 D) equal to zero
 2. A high pass filter is on which A) Passes all high frequencies B) attenuates all low frequencies C) Attenuates all frequencies below a designated cut-off frequency, and passes all frequencies above cut off D) none 3. A band stop filter is one which A) Attenuates frequencies between two designed cut off frequencies and passes all other freq B) Passes frequencies between two designated cut off frequencies and attenuates all other frequencies C) Passes all frequencies D) None 4. An ideal filter should have A) Zero attenuation in pass band C) Zero attenuation in attenuation band D)infinite attenuation in attenuation band 5. The propagation constant of a symmetrical T-section and π-section are A) Same B) not same C) Equal to 1 D) equal to zero
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 B) attenuates all low frequencies C) Attenuates all frequencies below a designated cut-off frequency, and passes all frequencies above cut off D) none 3. A band stop filter is one which A) Attenuates frequencies between two designed cut off frequencies and passes all other freq B) Passes frequencies between two designated cut off frequencies and attenuates all other frequencies C) Passes all frequencies D) None 4. An ideal filter should have A) Zero attenuation in pass band C) Zero attenuation in attenuation band D)infinite attenuation in attenuation band 5. The propagation constant of a symmetrical T-section and π-section are A) Same B) not same C) Equal to 1 D) equal to zero
 C) Attenuates all frequencies below a designated cut-off frequency, and passes all frequencies above cut off D) none 3. A band stop filter is one which A) Attenuates frequencies between two designed cut off frequencies and passes all other freq B) Passes frequencies between two designated cut off frequencies and attenuates all other frequencies C) Passes all frequencies D) None 4. An ideal filter should have A) Zero attenuation in pass band C) Zero attenuation in attenuation band D)infinite attenuation in attenuation band 5. The propagation constant of a symmetrical T-section and π-section are A) Same B) not same C) Equal to 1 D) equal to zero
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 3. A band stop filter is one which A) Attenuates frequencies between two designed cut off frequencies and passes all other freq B) Passes frequencies between two designated cut off frequencies and attenuates all other frequencies C) Passes all frequencies D) None 4. An ideal filter should have A) Zero attenuation in pass band B)infinite attenuation in pass band C) Zero attenuation in attenuation band D)infinite attenuation in attenuation band 5. The propagation constant of a symmetrical T-section and π-section are A) Same B) not same C) Equal to 1 D) equal to zero
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 B) Passes frequencies between two designated cut off frequencies and attenuates all other frequencies C) Passes all frequencies D) None 4. An ideal filter should have [A) Zero attenuation in pass band C) Zero attenuation in attenuation band D)infinite attenuation in attenuation band The propagation constant of a symmetrical T-section and π-section are [A) Same B) not same C) Equal to 1 D) equal to zero
frequencies C) Passes all frequencies D) None 4. An ideal filter should have A) Zero attenuation in pass band B)infinite attenuation in pass band C) Zero attenuation in attenuation band D)infinite attenuation in attenuation band 5. The propagation constant of a symmetrical T-section and π -section are A) Same B) not same C) Equal to 1 D) equal to zero
 C) Passes all frequencies D) None 4. An ideal filter should have A) Zero attenuation in pass band C) Zero attenuation in attenuation band D) infinite attenuation in attenuation band The propagation constant of a symmetrical T-section and π-section are A) Same B) not same C) Equal to 1 D) equal to zero
 D) None 4. An ideal filter should have A) Zero attenuation in pass band B) infinite attenuation in pass band C) Zero attenuation in attenuation band D) infinite attenuation in attenuation band 5. The propagation constant of a symmetrical T-section and π-section are A) Same B) not same C) Equal to 1 D) equal to zero
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 A) Zero attenuation in pass band B)infinite attenuation in pass band C) Zero attenuation in attenuation band D)infinite attenuation in attenuation band The propagation constant of a symmetrical T-section and π-section are A) Same B) not same C) Equal to 1 D) equal to zero
 C) Zero attenuation in attenuation band D)infinite attenuation in attenuation band 5. The propagation constant of a symmetrical T-section and π-section are A) Same B) not same C) Equal to 1 D) equal to zero
 5. The propagation constant of a symmetrical T-section and π-section are A) Same B) not same C) Equal to 1 D) equal to zero
A) Same B) not same C) Equal to 1 D) equal to zero
C) Equal to 1 D) equal to zero
6. A line work as
A) attenuator B) LPF
C) HPF D) neither of the above
7. Attenuation is expressed in [
A) Decibels B) nepers
C) Both D)none
8. Attenuation distortion occurs due to
A) Non uniform attenuation against frequency B)uniform attenuation against frequency
C) Non uniform attenuation against time D)uniform attenuation against time

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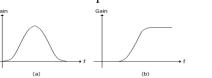
	QUESTION BANK	2016		
9. Decibel is unit of which of the following]	
A) Attenuation	B) transient	[J	
C) Power	D) energy			
10. Neper is unit of which of the follow	,	[]	
A) Attenuation	B)transient	L	7	
C) Power	D)energy			
,	nput voltage(or current) to output voltage(or cu	rrent) is		
called	input voltage(of earlent) to output voltage(of ea	Γ Γ]	
A) Decibel	B) neper	L	J	
C) Power	D) voltage ratio			
*	e ratio of input voltage((or current) to output vol	tage(or		
current) is called	ratio of input voltage((of current) to output vol	rage(or]	
A) Decibel	B) neper	L	J	
C) Power	D)voltage ratio			
13. Is defined as 10 times of the r	, -	г	1	
A) Decibel	B) neper	[]	
C) Power	· ·			
,	D)voltage ratio	г	1	
14. One decibel is equal tonep		[]	
A) 1.115	B) 0.115			
C) 2.113	D) 5.115	-	7	
15. One neper is equal todecib		[J	
A) 8.009	B) 8.69			
C) 9.69	D) 10.69	.1 1	1 1	
16. The critical frequency is defined as	s the point at which the response drops from	the pass	_	
A) 20 ID	D) 1 ID	L		
A) -20 dB	B) -3 dB			
C) -6 dB	D) -40 dB	1		
	ies within a band between a lower and an upper		-	
frequency and rejects all others outs		[]	
A)low-pass	B) high pass			
C) band pass	D)band stop	-	-	
18. A third-order filter will have a roll-		L]	
A) -20 dB/decade	B) -40 dB/decade			
C) -60 dB/decade	D) -80 dB/decade			
	s with all frequencies except those between two	specified	cut-	
off frequencies is called a		L	J	
A) low-pass	B)high pass			
C) band pass	D)band stop			
	s at frequencies above a specified cut-off frequen	icy is		
called a		[]	
A) low-pass	B)high pass			
C) band pass D)band stop				
	s at frequencies below a specified cut-off frequen	ncy is		
called a]	
Electrical circuits-II		Pa	ge 17	

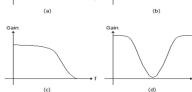
A) low-pass

B)high pass

C) band pass

- D)band stop
- 22. A network designed to pass signals with frequencies between two specified cut-off frequencies is called a
 - B)high pass A) low-pass
 - C) band pass D)band stop
- 23. Identify the frequency response curve for a band-pass filter.

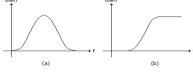


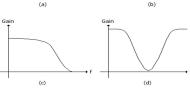


24. Identify the frequency response curve for a low-pass filter



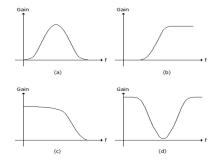
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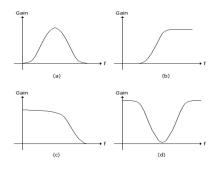


25. Identify the frequency response curve for a high-pass filter

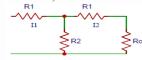




26. Identify the frequency response curve for a band-stop filter



- 27) Variable attenuators exhibit variable attenuation but constant
- a. Input impedance b. Output impedance c. Both a and b d. None of the above
- 28) Why are the variable attenuators applicable for radio broadcasting purposes?
 - a. For speed control b. For volume control c. For time control d. For power control
- 29) Which type of attenuators provide a fixed amount of attenuation by allowing the user to vary the attenuation in multiple steps?
 - a. Ladder attenuators b. Variable-value attenuators c. Pad attenuators d. All of the above
- 30). The attenuation in dB in terms of input power (P_1) and output power (P_2) is?
 - a) $\log_{10} (P_1/P_2)$ b)10 $\log_{10} (P_1/P_2)$ c) $\log_{10} (P_2/P_1)$ d) 10 $\log_{10} (P_2/P_1)$
- 31). In the circuit shown below, find the value of I_1/I_2 .



- a) $(R_1-R_2+R_0)/R_2$ b) $(R_1+R_2+R_0)/R_2$ c) $(R_1-R_2-R_0)/R_2$ d) $(R_1+R_2-R_0)/R_2$
- 32) The Characteristic Impedance of a low pass filter in attenuation Band is
 - (A) Purely imaginary. (B) Zero. (C) Complex quantity. (D) Real value.
- 33) The purpose of an Attenuator is to:
 - (A) increase signal strength. (B) provide impedance matching.
 - (C) decrease reflections. (D) decrease value of signal strength.
- 34) All pass filter
 - (A) passes whole of the audio band. (B) passes whole of the radio band.
 - (C) passes all frequencies with very low attenuation.
 - (D) passes all frequencies without attenuation but phase is changed.
- 35) If '' α is attenuation in nepers then
 - (A) attenuation in dB = $\alpha / 0.8686$. (B) attenuation in dB = $8.686 \, \alpha$.
 - (C) attenuation in dB = 0.1α . (D) attenuation in dB = 0.01α .
- 36) For a constant K high pass π -filter, characteristic impedance Z for f < 0 c f is
 - (A) resistive. (B) inductive. (C) capacitive. (D) inductive or capacitive.
- 37) For an m-derived high pass filter, the cut off frequency is 4KHz and the filter has an infinite attenuation at 3.6 KHz, the value of m is
 - (B) 4.36 (C) 0.34(D) 0.6(A) 0.436
- 38) In a variable bridged T-attenuator, with , RA = Ro zero dB attenuation can be obtained if bridge arm RB and shunt arm R are set as C
 - (A) $R B = .0 RC = \infty$ (B) $0 RB = \infty .RC = (C) R B = .R RC = \infty$ (D) RB = .0 RC = R
- 39) In m-derived terminating half sections, m =
- (A) 0.1(B) 0.3(C) 0.6(D) 0.95

40) Bridged T network can be used as:
(A) Attenuator (B) Low pass filter (C) High pass filter (D) Band pass filter

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