## A.P - ECET-EEE-2015



1.	Fundamentally converter is a circuit which	· OF CARENY DOES AROUNCES					
	(1) converts ac to de only	DIFLORA TUTIONS					
	(2) converts dc to ac only	Distribute Avierana					
	(3) converts de to ac vice versa	040-05 1977 65352352					
	(4) converts the frequency change into chan	ge 4580501552/8143382352					
2.	In dc choppers the wave forms for input and output voltages are respectively						
	(1) discontinuous and continuous	(2) continuous and discontinuous					
	(3) both continuous	(4) both discontinuous					
3.	In 3 phase full converter three SCRs pertaining to one group are fired at an interval of						
	(1) 30 degrees	(2) 60 degrees					
	(3) 90 degrees	(4) 120 degrees					
4,	A freewheeling diode is placed across the de load						
	(1) to prevent reversal of load voltage						
	(2) to prevent transfer of load current away from the source						
	(3) to allow the current towards source	And the state of t					
	(4) to protect the switch						
5.	A single phase fully controlled converter is a						
	(1) single quadrant converter	(2) two quadrant converter					
25	(3) four quadrant converter	(4) all quadrant operated converter					
6.	In class AB amplifier the out put current flow	vs for					
	(1) fully cycle	(2) more than half cycle					
	(3) less than half cycle	(4) half cycle					
7.	The voltage of CB amplifier configuration has phase shift of						
	(1) 180 degrees	(2) 90 degrees					
	(3) 360 degrees	(4) 270 degrees					
3.	The phase difference between input and output	ut voltages of an oscillator is					
	(1) 180 degrees	(2) 360 degrees					
	(3) 90 degrees	(4) 270 degrees					
1.	Which of the following circuit used as voltage to frequency converter						
	(1) schmitt trigger	(2) astable multivibrator					
	(3) bistable multivibrator	(4) monostable multivibrator					

	(1) a very narrow depletion layer					
	(2) a net hole current					
	(3) a net electron current					
	(4) almost zero current					
11.	Hall effect can be used to measure					
	(1) magnetic field intensity	(2) electric field intensity				
	(3) hole current	(4) carrier concentration				
12.	The resistance of a reverse biased diode is					
	(1) zero	(2) low				
	(3) negative	(4) infinite				
13.	The base of the hexa decimal number system	is				
	(1) 2	(2) 8				
	(3) 10	(4) 16				
14.	The octal equivalent of the decimal number 568 is					
	(1) 1070	(2) 238				
	(3) 568	(4) 1000				
15.	Which of the following groups constitute basic logic gates					
	(1) NOR, NAND	(2) XOR, XNOR				
	(3) AND, OR	(4) AND, OR, NOT				
16.	The OR gate in positive logic is equivalent to	which of the following gates in negative				
	(1) AND	(2) OR				
	(3) NAND	(4) NOT				
17.	Number of flags of 8051 architecture is					
	(1) 5	(2) 8				
	(3) 2	(4) 4				
18.	The timer of 8051 can be operated in one of	the modes				
	(1) 2	(2) 4				
	(3) 6	(4) 3				
19.	In 8051 serial data transfer takes place in one	of the following modes				
	(1) 2	(2) 3				
	(3) 4	(4) 1				
andre						

(2) the power level

(4) the frequency

(2) increasing magnetic flux

(4) alternating electric flux

29.

30.

The basic function of transformer is to change

(1) the level of voltage

Transformer action requires (1) constant magnetic flux

(3) the power factor

(3) alternation flux

31.	Full load voltage regulation of transformed	er is zero when the power factor of load is near				
	(1) unity and leading	(2) zero and leading				
	(3) zero and lagging	(4) unity and lagging				
32.	In the transformer circuit mode the core	loss is represented as				
	(1) series resistance	(2) series inductance				
	(3) shunt resistance	(4) shunt inductance				
33.	When the load varies on the secondary sid- variation of load	e of transformer one of following value will follow the				
	(1) core flux					
	(2) copper losses					
	(3) iron losses					
	(4) magnetization component of no load of	current				
34.	Open circuit test on a transformer is perf					
	(1) rated voltage	(2) rated current				
	(3) direct current	(4) high frequency supply				
35.	PART AT THE PART OF THE PART O	ers under load conditions can be determined by				
	(1) back to back test	(2) open circuit test				
	(3) short circuit test	(4) high frequency test				
36.	The number of poles in turbo alternator is					
	(1) 2	(2) 6				
	(3) 8	(4) 10				
37.	The effect of leading power factor on the					
0.74	(1) increasing	(2) decreasing				
	(3) constant	(4) oscillating in nature				
38.		give higher than actual value of regulation of alternator				
.2194	(1) ZPF method	(2) MMF method				
	(3) EMF method	(4) ASA method				
39.	The armature current of a synchronous m					
57.	(1) leads the applied voltage by 90 degree					
7.6	(2) lag behind the applied voltage by 90 d					
	(3) is in phase with applied voltage					
1	(4) zero	restation and the Manal.				
40	In a synchronous motor damper windings	are used to				
	(1) help in starting	434141.007 ct. 177332				
	(2) run it as an induction motor					
	(3) help in starting as a motor and to reduce hunting					
	(4) increase efficiency	and the state of t				
	(4) mercase efficiency					

(2) cramped at the end

(4) uniform throughout

(2) electro magnetically

(4) by fluid action

(2) heating effect

(4) hall effect

(1) cramped at the beginning

Damping torque in instrument is not generally produced

In flux meters the following method is used for deflecting torque

(3) cramped in the middle

(1) pneumatically

50.

(3) electro statically

(1) magnetic effect

(3) induction effect

61.	Which of the following material has highest dielectric strength						
	(1) air	(2) mica					
	(3) paper	(4) glass					
62.	If the three capacitors of 5F, 10F and 15F	are connected in parallel across a supply mains, th					
	equivalent capacitance is						
	(1) 5 F	(2) 10 F					
	(3) 15 F	(4) 30 F					
63.	The electrodes are completely immersed in						
	(1) paste	(2) electron light					
	(3) electrolyte	(4) pure water					
64.	Steam is generated in						
	(1) boiler	(2) condenser					
	(3) economiser	(4) super heater					
65.	Reheat cycle in steam power plant is used	to					
	(1) utilize heat of fuel gasses	(2) increase thermal efficiency					
	(3) improve condenser performance	(4) reduce loss of heat					
66.	The overall efficiency of thermal power plants is low due to the low efficiency of						
	(1) boiler	(2) alternator					
	(3) steam turbine and condenser	(4) non-salient pole rotor					
67.	In hydel power plant the area behind the da	m is called					
10	(1) catchment area	(2) power house					
	(3) surge tank	(4) tail race					
68.	Load factor of a power station is generally						
	(1) equal to unity	(2) less than unity					
	(3) more than unity	(4) zero					
69.	The preferred relay for the protection of medium transmission line is						
	(1) directional relay	(2) buchholz relay					
	(3) impedance relay	(4) reactance relay					
70.	Buchholz relay is operated by						
	(1) eddy current	(2) gas pressure					
	(3) elector magnetic induction	(4) electro static induction					
71.	The shape of the disc in an induction relay						
	(1) circular	(2) spiral					
	(3) elliptical	(4) square					
72.	Which of the following faults is termed as symmetrical fault						
	(1) single phase to ground	(2) line to line					
	(3) double line to ground	(4) three phase short circuit					

73.	Directional over current relay is used for the protection of						
	(1) long line	(2) transformer					
	(3) ring main distributor	(4) radial distributor line					
74.	Which of the following motor is used in	n traction					
	(1) DC shunt motor	(2) DC series motor					
	(3) AC 3 phase motor	(4) AC single phase capacitor start motor					
75.	For 25 kV single phase traction system	power supply frequency is					
	(1) 50 Hz	(2) 120 Hz					
*	(3) 62 Hz	(4) 25 Hz					
76.	Quadrilateral speed-time curve pertains	to which of the following services					
	(1) main line service	(2) urban service					
	(3) sub-urban service	(4) urban and sub-urban service					
77.	Longer coasting period for a train results in						
	(1) higher acceleration	(2) higher retardation					
	(3) low specific energy consumption	(4) higher scheduled speed					
78.	For train lighting the generator used is						
	(1) series	(2) shunt					
	(3) rosenberg	(4) synchronous					
79.	The total energy input per tonne kilometer of the train is called as						
	(1) energy consumption	(2) specific energy consumption					
	(3) coefficient of adhesion	(4) tractive effort					
80.	In overhead construction of railways the	e contact wire is supported by					
	(1) catenary wire (3) long wire	(2) short wire (4) span wire					
81.	The variation of voltage in trolly wire is						
· .	(1) voltage amplifier	(2) booster					
	(3) current amplifier	(4) feeder					
82.	Which of the following accessory is use						
	(1) holer	(2) switch					
	(3) fuse	(4) socket					
83.	In incandescent lamps the filament is ma	ade of					
	(1) gold	(2) silver Erakswitther or Franciscus					
***	(3) tungsten	(4) iron					
84.	The transformer should be located at						
	(1) town centre	(2) at the end of the town					
	(3) load centre	(4) any where					

(2) 0.5

(4) zero

(2) 2

(4) 4

(2) series reactor

(4) circuit breaker

Which device automatically interrupts the supply in the event of severs fault

(1) 1.0

(3) 2.5

(3) isolator

(1) 1

(3)3

(1) earthing switch

The number of P-N junctions in a thyristor is

95.

96.

(A.P)	ECET QUESTION PAPER	<u></u>	18				
97.	Which one of the following is a bidirectional controlled switch						
	(1) thyristor	(2) triac					
F)	(3) GTO	(4) diac					
98.	Once SCR starts conducting a forward current its gate looses control over						
	(1) anode voltage only	(2) anode current only					
	(3) anode voltage and current	(4) anode voltage and time					
99.	In a thyristor anode current is made	e up of					
	(1) electrons only	(2) eletrons or holes					
	(3) electrons and holes	(4) holes only					
100.	An uncontrolled rectifier implies a re-	ectifier					
	(1) in which all elements are thyrist	ors					
2	(2) in which all elements are diodes						
	(3) in which all elements are both the	hyristors and diodes					
	(4) in which all elements are resista	nces					
22							
		With the same of t					
	69						
	\$3						
ac4508-08806-0							
	W						

## KEY

1) 3	2) 2	3) 4	4) 4	5) 2	6) 2	7) 3	8) 2	9) 2	10) 4
11) 4	12) 4	13) 4	14) 1	15) 4	16) <b>1</b>	17) 4	18) 2	19) 3	20) 3
21) 2	22) 1	23) 4	24) 3	25) 1	26) 4	27) 4	28) 3	29) 1	30) 3
31) 1	32) 3	33) 2	34) 1	35) 1	36) 1	37) 2	38) 3	39) 1	40) 3
41) 1	42) <b>2</b>	43) 3	44) 3	45) 3	46) 3	47) 3	48) 4	49) 3	50): 4
51) 1	52) 4	53) 4	54) 2	55) 4	56) <b>3</b>	57) 1	58) 2	59) 4	60) 1
61) 4	62) 4	63) 3	64) <b>1</b>	65) 2	66) 3	67) <b>1</b>	68) 2	69) 3	76) <b>2</b>
71) 3	72) 4	73) 3	74) 2	75) 4	76) 4	77) 3	78) 3	. 79) 2	80) 1
81) 2	82) <b>2</b>	83) 3	84) 3	85) 3	86) 1	87) <b>2</b>	88) 1	89) 2	90) 2
91) 2	92) 1	93) 3	94) 1	95) 4	96) 3	97) 3	98) 3	99) 3	100) 2