

18/A/C/S-3/4/E

Booklet Series -A

033/231

PAPER – I ELECTRICIAN (THEORY) SEMESTER – III

TIMI	E: 3 HRS.	MARKS: 150	
Note:	Attempt all the questions.		
	All questions carry equal marks.		
	This paper carries negative marking. 25% marks will be deducted for each wrong answer.		
Choo	se the correct answers.		
1.	Rotary convertor is generally available in		
	a) Single phase	b) Three phase	
	c) Both (a) & (b)	d) Twelve phase	
2.	Mercury arc rectifier anodeis made up of _		
	a) Carbon	b) Graphite	
	c) Both (a) & (b)	c) None of these	
3.	is also known as hote cathode re		
	 a) Copper oxide rectifier 	b) Tunger bulb rectifier	
	c) Mercury arc rectifier	d) None of these	
4.	Machine which converts A.C into D.C is ki	nown as	
	a) Converter	b) Inverter	
	c) Both (a) & (b)	d) None of these	
5.	In a full wave rectifier, ripple frequency is		
	a) 2 F input	b) 3 F input	
	c) Both (a) & (b)	d) None of these	
6.	Which method is used to make a full wave		
	a) Bridge method		
	c) Both (a) & (b)	d) None of these	
7.	Rectification is of how many types		
	a) One	b) Two	
	c) Three	d) Four	



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8.	The supply in Growler is			
	a) DC	b) AC		
	c) Both (a) & (b)	d) None of these		
9.	The number of coils per group in balanced	I winding is		
	a) Same	b) Un equal		
	c) Both (a) & (b)	d) None of these		
10.	The mostly used winding for rewinding is			
10.	a) Basket winding	b) Chain winding		
	c) Concentric winding	d) None of these		
	of contours frinancy	a) None of these		
11.	For earth with testing volt meter when conr	nected to commutator segment and body of an		
	amature, the growler is connected to A.C. supply. The milli voltmeter should read			
	a) No reading	b) Low reading		
	c) Infinity	d) More reading		
12.	The number of slots with respect of number of coils in double layer winding is -			
1 20 .	a) Same	b) Less		
	c) More than one	d) Half		
	, , , , , , , , , , , , , , , , , , , ,	d) Hall		
13.	Pitch factor in full pitch winding is			
	a) One	b) Less than one		
	c) More than one	d) None of these		
1.4				
14.	The numbers of windings in double cage inc			
	a) One c) Three	b) Two		
	c) Three	d) Four		
15.	Which type of pitch is commonly used due to	to its advantages during rewinding 9		
	a) Short pitch	b) Long pitch		
	c) Full pitch	d) None of these		



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16.	Mostly field used in three phase stator a) Flat Loop c) Chain	b) Basket d) None of these	
17.	The Unit of luminous flux is-		
	a) Candale Power	b) Lux	
	c) Lumen	d) Meter Candle	
18.	The unit of luminous intensity is		
	a) Candale Power	b) Lumen	
	c) Lume Flux	d) None of these	
19.	The unit of soild angle is		
	a) Degree	b) Steradian	
	c) Radian	d) Candale	
20.	Which lamp is generally used for light	ing purpose ?	
	a) Carbon filament Lamp	b) Arc lamp	
	c) Tungsten filament lamp	d) All of these	
21:	Carbon Filament Lamp is used for-		
	a) Lìghting	b) Blittery Charging	
	c) Projectors	d) Indicating	
~.		Element of the	
22.	Which Lamp is used in the cinema Pro	jectors?	
	a) Carbon arc lamp	b) Carbon filament lamp	
	c) Neon lamp	d) Gas discharge lamp	
23.	In a mercury vapour lamp which gas is	filled?	
	a) Hydrogen	b) Argon	
٠.	c) Helium	d) Neon	
24.	The Function of auxiliary electrode in a	Mercury vapour lamp is-	
	a) Starting Purposes	b) To drop the voltage	
	c) To reduce the current	d) Gives more Light	
.5.	Mercury vapour lamps are made in		
	a) M.A.T MA and A.B.T type	b) M.A M.B And M.A.T type	
	c) M.B.T B.C.T and A.B.1 type	d) None of these	
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26.	The working temperature of high press a) 600^{0} c) 800^{0}	ure mercury vapour lamp is b) 680 ⁰ d) 1200 ⁰	
27.	The sodium vapour lamp has		
	a) Neon gas	b) Helium	
	c) Hydrogen	d) Nitrogen	
28.	Sodium vapour has two electrodes-		
	a) Oxide coated tungsten	b) Oxide coated carbon	
	c) Oxide coated nichrome	d) Oxide coated eureka	
29.	The colour of sodium vapour lamp ligh	t is	
	a) Blue	b) Red	
	c) Yellow	d) White	
30.	The working temperature of sodium vapour is		
	a) 250°C	b) 300° C	
	c) 450°C	d) 60°C	
31.	. Which lamp takes more time for giving full light?		
	a) Sodium vapour lamp	b) Mercury vapour lamp	
	c) Tugsten filament lamp	d) Neon lamp	
32.	A sodium vapour lamp has		
	a) 20-30 lumen/watts	b) 40-50 lumen/watts	
	c) 55-75 lumen/watts	d) 85-105 lumen/watts	
33.	Sodium vapour lamp has how much ion	sation notential	
	a) 5.12 V	b) 6.2 V	
	c) 6.76 V	d) 7.2 V	
34.	The fluorescent tube has		
	a) Mercury vapour	b) Neon	
	c) Mercury & Argon	d) Helium& Mercury	



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35.	The main function of Choke in a fluoresce a) Induce surge voltage at the time of star b) To drop the voltage c) To improve the P.F d) To induce high voltage and limit the co	rting
36. In running condition, voltage across starter is -		
	a) 110 V c) 220 V	b) 180 V d) Zero
37.	The light efficiency of fluorescent tube is	-
	a) 40 lumen/watts c) 60 lumen/watts	b) 45 lumen/watts d) 75 lumen/watts
38.	lamp gives direct light when its f	ilament is heated.
	a) Incandescent lamp	b) Gas discharge lamp
	c) Neon lamp	d) Arc lamp
39.	The diameter of 40 Watt tube is	
	a) 12mm	b) 25 mm
	c) 30mm	d) 38 mm
40.	Gas filled in a tube starter is-	
	a) Argon	b) Helium
	c) Neon	d) None of these
41.	Condenser is used in tube circuit to	
	a) To improve the P.F	b) To improve the voltage
	c) To safeguard the tube	d) To give full light
42.	The inner side colour of the Reflector is	
	a) Black	b) White
	c) Any Dark	d) None of these
43.	In a power house, Illuination should be app	proximately
	a) $20-40 \text{ Lumen/M}^2$	b) 80-90 Lumen/M ²
	c) 100-150 Lumen/M ²	d) 200-250 Lumen/M ²



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44.	In parking lots, illumination height sh		
	a) 8 Lumen/M ³	b) 10 Lumen/M ³	
	c) 12 Lumen/M ³	d) 80 Lumen/M ³	
45.		l under a gas discharge lamp, it appear to be either	
		everse direction. What is reason for it?	
	a) Argon	b) Helium	
	c) Neon	d) None of these	
46.	The circuit of tube starter has condens	ser which	
	a) Reduce the spark	b) Improves power factor	
	c) Limit the current	d) Reduce the stroboscope effect	
	s) shift the current	dy reduce the stroboscope offect	
47.	The diameter of electrode in a D.C are	c lamp is	
	a) Positive electrode very thick	b) Negative electrode very thick	
	c) Positive electrode very thin	d) Both similar	
48.	Voltage used in D.C arc lamp is-		
	a) 40-60V	b) 80-110V	
	c) 180-210 V	d) 220-250 V	
40			
49.	connected with	de of the edison screw type lamp holder should be	
	a) Neutral wire of the circuit	b) Phase wire of the circuit	
	c) Half wire of the circuit	d) Earth wire of the circuit	
50	The working temperature of a gas filled tungsten filament lamp is		
50.	a) 10250		
	a) 1035°c	b) 1200°c	
	c) 1500°c	d) 2300°c	
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