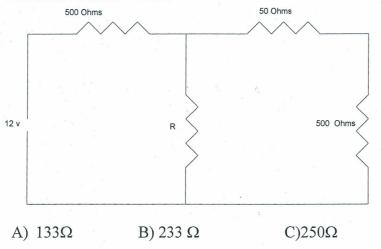
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- 11. With 100 V applied across a 10 K Ω resistance, the power dissipation will be
 - A) 1 Mw
- B) 1W
- C) 100W
- D) 1KW
- 12. What is the value of unknown resistance R in the figure below if the voltage drop across the 500 Ohm resistor is 2.5 Volts



D)533 Ω

- 13. In case the resistance of a GLS lamp changes as the voltage across the bulb changes, it can be concluded that
 - A) the change is caused by variation in internal inductance of the bulb
 - B) the bulb contains some gas at significant pressure
 - C) ionization of the gas within the bulb causes this change
 - D) the filament resistance is non-linear
- 14. In a parallel bank with unequal branch resistances
 - A) the current is highest in the lowest R
 - B) the voltage is highest across the lowest R
 - C) the current is highest in the highest R
 - D) the current is equal in all branches
- 15. Distance between plate earth electrodes as per electrical inspectorate standards
 - A) 80M
- B) 0.8M
- C) 2M
- D) 8M

- 16. In a closed loop control system
 - A) control action is independent of the output
 - B) output is independent of input
 - C) there is no feedback
 - D) control action is dependent of the output

17. The force between two electric charges is magnitude of charges and inversely pr them. This statement pertain to	directly proportional to the product of the oportional to the square of the distance between
A) Joule's law B)Lenz's law (C)Ampere's rule D)Coulomb's law
cause which produces it ". This statem A) Joule's law F	always flows i such a direction to oppose the very nent pertains to which law of electrical engineering? B) Kirchhof's law D) Coulomb's law
junction and cooling at the other junction A) Hall effect E	thermo-couple, then heating is produced at one a. This effect is B) Seebeck effect D) Skin effect
20. Non-sinusoidal waveforms are made up of A) Different sinusoidal wave forms EC) fundamental and odd harmonics E	3) fundamental and even harmonics
21. The KWh meter can be classified as a/an - A) deflecting B) digital C	instrument C) recording D) indicating
,	tem of an indicating instrument only 3) stationary 5) just starting to move
,	depend on its: 3) rate of discharge 2) quantity of active material
24. Trickle charging of a storage battery helps A) prevent sulphation C) maintain proper electrolyte level	B) keep it fresh and fully charged
25. A capacitor consists of twoA) insulation separated by a dielectricC) ceramic plates and one mica disc	B) conductors separated by an insulator D) silver-coated insulators
26. A capacitor that stores a 0.5 C at 10 volts h A) 5 B)20 C) 10	
27. Suitable clearance from line to ground of I across street shall be	Low & Medium voltage power transmission lines
A) 3.79M B) 5.79M	C)10.79M D) 1.79M
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28. Horizontal minimum clearance of 11KV pow	ver transmission line from nearest building shall
A) 0.8M B) 1.2M	C) 2.1M D) 5M
29. "Low voltage" is voltage not exceedingA) 230 V B) 440V C) 250V	D) 650V
30. Fault MVA = Base MVA x 100 / A) System percentage impedance C) 1000	B)Line reactance D) Rated MVA
31. Earth resistance (Maximum) of small substar A) 2 Ohms B) 10 Ohms C	tions shall be C) 1 Ohm D) 0.5 Ohm
32.For a sine wave with peak value "I" the r.m.s A) 0.818 I B) 0.707 I	value is C) 0.5 I D) 1.414 I
33. In a capacitor the electric charge is stored inA) DielectricC) Both dielectric as well as metal plates	B) Metal plates
34. When electric current is passed through a ther junction and cooling at the other junction. The A) Hall effect B) C) Peltier effect D)	his effect is
35. The hum in transformer is developed in A) Core B) Winding	C)Cooling oil D)Tank
	ansformer Copper loss None of above
37.Connected load isA) The rating in kW of installed electrical loadB) Maximum load put on at any timeC) Part of load always remain OND) Average load during a period	oad
	rly unity power factor induction motor GLS Lamp

39.Induction motor lA) No load		igh power factor at C) rated r.p.n	D) Near full lo	oad
40.Highest transmiss A) 440V	sion voltage uso B)11KV	ed in India is C) 132KV	D) 400KV	
41.Transmission vol A) 1-2 KM C) 50-60 KM	tage of 11KV i	s normally used for dis B) 20-25 KM D) 100-150 KM	tances up to	
42.In cables the thick A) Current carry C) Power factor	ing capacity	rer of insulation depend B) Voltage D) Reactive power	ls upon	
43.Suspension type i A) 11KV	nsulators are u B) 33 KV	sed for voltages above C) 66 KV D) 13:	2 KV	
,	effect	of electric current B) Electrostatic effect D)Photoelectric effect		
45.The filament of an A) Steel		is made of C) Tungsten	D) Carbon	
46. Compared to star A) has no batte C) has a variab	ry	transformer B) req D) is	uire only less number of more durable	of batteries
47. Line Amps = 1.7				
A) Line volts	B) 1000	C) Phase Volts	D) 100	
48. KW = KVA x A) 1.732		C) Power factor	D) 1.11	
49. If two waves ha other is at zero, the	^		is at the maximum valu	e when the
A) 0 degrees	B) 90 degrees	s C) 120 degrees	D) 180 degrees	
50. The value of dielo A) Zero	ectric constant B) 1	for vacuum is taken as C) 100 D) Inf	inite	
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