(B)1 Ω

2. Resistivity of a wire depends on

 $(A)100 \Omega$

ANSWER-A

ANSWER-B

BASIC ELECTRICAL MOSTLY ASKED 125 QUESTIONS AND ANSWERS

1. What will be the resistance if 10 resistors of 10 ohm each is connected in series

(D)10 Ω .

(C) 0.1Ω

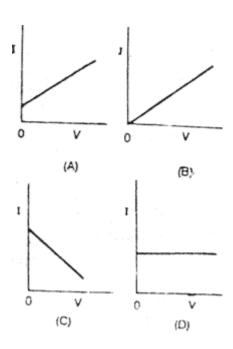
(A) length (B) material (C) cross section area (D) All of the above.

3. Which of the following is not the same as watt?
(A) joule/sec (B) amperes/volt (C) amperes x volts (D) (amperes) x ohm. ANSWER-B
4.Ohm's law is not applicable to
(A) DC circuits (B) high currents (C) small resistors (D) semi-conductors. ANSWER-D
5.A wire of resistance R has it length and cross-section both doubled. Its resistance will become
(A) 4 R (B)2 R (C) R (D) R / 4.
ANSWER-C 6.The rating of fuse wire is expressed in terms of
(A) Ohms (B) Mhos (C) Amperes (D) Watts. ANSWER-C
7. For maximum transfer of power, internal resistance of the source should be:
(A) Equal to load resistance (B) Less than that of the load (C) More than that of the load (D) Zero ANSWER-A 8. Thevenin's theorem can be applied to network containing
(A) Passive elements only (B) Active elements only
(C) Linear elements only (D) All of these ANSWER-D
9. Which of the following theorems helps in simplifying computations when the load across a circuit is varying? (A) Superposition (B) Norton's (C) Thevenin's (D) Maximum power transfer ANSWER-D
10. When maximum power transfer takes place, the efficiency of power transfer of the circuit is (A) 100% (B) 75% (C) 50% (D) 25% ANSWER-C
11. The superposition theorem requires as many circuits to be solved as there are: (A) Nodes (B) Sources (C) Nodes and Sources (D) Nodes, Sources and Mesh ANSWER-B

- 12. An ideal voltage source should have:
- (A) Zero source resistance
- (B) Infinite source resistance
- (C) Terminal voltage is proportional to current
- (D) Open-circuit voltage nearly equal to voltage of the load current

ANSWER-A

13.In which figure the relationship between voltage V and current I is in accordance with Ohm's law?



(A) Figure A (B) Figure B (C) Figure C (D) Figure D.

ANSWER-B

- 14. A passive element in a circuit is one which
- (A)Receives energy (B) Supplies energy (C) both supplies and receives energy (D) none

ANSWER-A

- 15.Unit of electric potential
- (A) Ampere (B) Volts (C) coulomb (D) Volt-ampere ANSWER-B
- 16.If a flux of $\boldsymbol{\Phi}$ Weber's links with a coil of N turns , the induced voltage in the coil is given by
- (A) N d Φ /dt (B) -N d Φ /dt (C) NBlu (D) none ANSWER-B
 - 17. Whenever there is a relative motion of a coil & a magnetic field, a voltage is induced in the coil. Such a voltage is called
 - (A) Statically induced voltage (B) Dynamically induced voltage
 - (C) Self-induced voltage
- (D) Mutually induced voltage

18. The polarity of the induced voltage is determined by;
(A) Ampere's law (B) Lenz's law (C) Kirchhoff's law (D) Right hand rule ANSWER-B
19.Two resistors each of 4Ω and 12Ω are connected in parallel and the parallel combination is connected in series with a 2Ω resistor. If this circuit is connected across a 100V supply , the total current drawn is (A) 50A (B) 25A (C)20A (D)2A
20. The energy stored in an inductor of inductance L henry is represented by
(A) i^2 L (B) i L ² (C)L ² / i (D) (1/2) L i^2
21. The voltage induced in an inductor of L henry is represented by (A)Li (B) L/I (C) L di/dt (D) None of these
22. Which of these is not an expression for the energy stored in a capacitor? (A) $1/2CV^2$ (B) $C \int v dv(C) \int p dt$ (D) QV^2
23. Which of the elements in the following is not bilateral?
(A) Resistor (B) Inductor (C) Capacitor (D) Transistor
24.A node in a network is defined as a (A) Closed path (B) Junction point of two or more branches
(C) Group of interconnected elements (D) All of these
25. Which of the following is not a unit of conductance? (A) mho (B) Siemens (C) Volt/ampere (D) Ampere/volt
26. Three capacitors, each of C microfarad are first connected in series and then in parallel. The equivalent capacitance (A) Is greater in the series combination (B) Is greater in the parallel combination
(C) Is the same in the two combination (D) None of these ANSWER-B
27. Two resistances R_1 and R_2 give combined resistance of 4.5 ohms when in series and 1 ohm when in parallel. The resistances are (A) 3 ohms and 6 ohms (B) 3 ohms and 9 ohms
(C) 1.5 ohms and 3 ohms ANSWER-C (D) 1.5 ohms and 0.5 ohms
28. A Material having a charge of 12 coloumbs over 6 second what is current flowing through the material
A) 3 AMPS B)2 AMPS
C) 4 AMPS D) 10AMPS

ALL EXAM REVIEW ADDA

29. The Potential Difference between What is the value of Resistance	en Two terminals of Resistor is 10V, Current flowing is 5A,		
A) 2Ω	Β) 1.5 Ω		
C) 1.5 Ω ANSWER-A	D) None Of These		
30. Four resistors each of 20Ω are α	connected in parallel, the total resistance is		
Α) 80Ω	Β) 5Ω		
C) 5Ω ANSWER-C	D) None Of These		
31.OneFarad Is Equal To			
Α) 1Ω	B) 1 V/C		
C) 1C/V ANSWER-C	D) None Of These		
	2Ω are connected in parallel and the parallel combination is sistor. What is the Equivalent Resistance?		
Α) 50Ω	Β) 5Ω		
C) 20Ω ANSWER-B	D) 2Ω		
33. The unit of resistance is			
A) Ohms	B) Volts		
C) Amperes ANSWER-A	D) Tesla		
34. Circuit is defined as			
A) Interconnection OfCircu	uit Elements With Closed Path		
B) Interconnection OfCirc	uit Elements With Out Any Closed Path		
C) Interconnection Of With	Out Circuit Elements		
D)None of these			
ANSWER-A 35.In Series Connection of element	tsParameter is Same		
a) Current	b)Voltage		
c) Power	d)None of these		

36.In parallel Connection of element	sParameter is Same
a) Current	b)Voltage
c) Power ANSWER-A	d)None of these
37. A Loop in a Circuit is defined as	a
a) Closed path	b) Junction point of two or more branches
c) inter connected elements ANSWER-A	d) All of these
38.KCL is applicable at	
a) A Junction b) Resistor ANSWER-A	c) Loop d) All of these
39. KVL is applicable at	
a) A Junction	b) Resistor
c) Closed Loop ANSWER-C	d) All of these
40.Super-Position Theorem is applic	able for a
a) Linear Bilateral Network	b) Non- Linear Bilateral Network
c) Linear Uni-ateral Network ANSWER-A	d)All the above
41.Faradays- First law the induced E	MF is
a) Dynamically Induced EMI	b) Statically Induced EMF
c) Eddy EMF ANSWER-A	d) None of these
42.Faradays- second law the induced	1 EMF is
a) Dynamically Induced EMI	b) Statically Induced EMF
c) Eddy EMF ANSWER-B	d) None of these
43. The direction of dynamically Ind	uced EMF can be determined with the help of
a) Lenz's Law	b) Flemings Left Hand Rule
c) Flemings Right Hand Rule ANSWER-B	d) None of these
44. The self inductance is written as	follows
a) L=NØ/I	b) L=Ø/I

c) L=V/dI/dt ANSWER-D	d) All
45. Thevenin's Voltage is	
a) Open circuit voltage	b) Short Circuit Voltage
c) Closed Circuit voltage	d) None of these
ANSWER-A	
46. Ohm's Law is Applicable at	Conditions
a) Constant Temperature	b) Constant Pressure
c) Constant Volume	d) None of These
47. The unit of inductance is	
a) ohms	b) Volts
c) Amperes	d) Henry
48. The unit of capacitance is	
a) ohms	b) Farads
c) Amperes	d) Tesla
49. An inductor storesenergy	
a)Electrical energy	b) Magnetic energy
c) mechanical energy	d) All
50. Magnetic flux has he unit of	
a) Newton	b) Ampere turn
c) Weber ANSWER-C	d) Tesla
51. If $E_1 = A \sin \omega t$ and $E_2 = A \sin(\omega t - \theta)$,	then
A)E1& E2 are in phase B) E2 lags E1by 6 ANSWER-B	OC) E1 lags E2by θ D) E2 lags E1by 90 ⁰
52. The equation for 25 cycles current sir	ne wave having rms value of 30 amps, will be
A) 42.4sin50πt B) 42.4sin25πt C) 30sin2	25πt D) 30sin25πt
ANSWER-A	
53. The rms value of sinusoidal voltage v	•
A) $200/\sqrt{2}$ V B) $100/\sqrt{2}$ V C) $200\sqrt{2}$ V D ANSWER-A	D) 100√2 V

A)North-south B) South-North

ANSWER-A

is A) 40 V B) 20 V C) 100 V D) 1600 V 4. What is represented by the hypotenuse of impedance triangle? A) Impedance drop B) Resistance C) reactance D)apparent power 6. The phase angle difference between current and voltage is 90°, the power will be A) zero B) maximum C)minimum D)VI ANSWER-A 7. A series R - L - C circuit has R = 1 Ω, L = 1 H and C = 1 F connected across a voltage and line current is 1 A, find energy consumed in one hour A) 36 J B)360 J C)3600 J D)1 J ANSWER-C 8. Power consumed in Resistor is A)VI B)VIcosφ C)VI sinφ D)VI tanφ 9. In pure inductive circuit current voltage by 90° A)lead B)lag C)in phase with D) none 10. power consumed by capacitor is A)VI B) 0 C) VI sinφ D) VIcosφ 11. RMS Value of sinusoidal Voltage is A) Vm/√2 B) 0 C) VI /sinφ D) VI/cosφ ANSWER- 12. Average Value of sinusoidal Voltage is A) Vm/√2 B) 2Vm/π C) VI /sinφ D) VI/cosφ ANSWER-B 13. Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A) 1.11 B) 2 C)√2 D) 4 ANSWER-C 15. Direction of Induced EMF is given by A) Flemings Right hand rule B) Flemings Left hand rule C) Faraday Law D) Lenzs Law ANSWER-A 16. The direction of magnetic field is from	54. The value of supply voltage for 400 W, 4 Ω load				
A) Impedance drop B) Resistance C) reactance D)apparent power 6. The phase angle difference between current and voltage is 90°, the power will be A) zero B) maximum C)minimum D)VI ANSWER-A 7. A series R - L - C circuit has R = 1 Ω, L = 1 H and C = 1 F connected across a voltage and line current is 1 A, find energy consumed in one hour A) 36 J B)360 J C)3600 J D)1 J ANSWER-C 8. Power consumed in Resistor is A)VI B)VIcosφ C)VI sinφ D)VI tanφ 9.In pure inductive circuit current voltage by 90° A)lead B)lag C)in phase with D) none 10.power consumed by capacitor is A)VI B) 0 C) VI sinφ D) VIcosφ 11.RMS Value of sinusoidal Voltage is A) Vm/√2 B) 0 C) VI /sinφ D) VI/cosφ ANSWER- 12.Average Value of sinusoidal Voltage is A) Vm/√2 B) 2Vm/π C) VI /sinφ D) VI/cosφ ANSWER-B 13.Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A) 1.11 B) 2 C)√2 D) 4 ANSWER-C 15.Direction of Induced EMF is given by A)Flemings Right hand rule B) Flemings Left hand rule C)Faraday Law D) Lenzs Law ANSWER-A	is A) 40 V B) 20 V C) 100 V D) 1600 V				
6.The phase angle difference between current and voltage is 90°, the power will be A) zero B) maximum C)minimum D)VI ANSWER-A 7. A series R - L - C circuit has R = 1 Ω, L = 1 H and C = 1 F connected across a voltage and line current is 1 A, find energy consumed in one hour A) 36 J B)360 J C)3600 J D)1 J ANSWER-C 8. Power consumed in Resistor is A)VI B)VIcosφ C)VI sinφ D)VI tanφ 9.In pure inductive circuit current voltage by 90° A)lead B)lag C)in phase with D) none 10.power consumed by capacitor is A)VI B) 0 C) VI sinφ D) VIcosφ 11.RMS Value of sinusoidal Voltage is A) Vm/√2 B) 0 C) VI /sinφ D) VI/cosφ ANSWER- 12.Average Value of sinusoidal Voltage is A) Vm/√2 B) 2Vm/π C) VI /sinφ D) VI/cosφ ANSWER-B 13.Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A) 1.11 B) 2 C)√2 D) 4 ANSWER-C 15.Direction of Induced EMF is given by A)Flemings Right hand rule B) Flemings Left hand rule C)Faraday Law D) Lenzs Law ANSWER-A	4. What is represented by the hypotenuse of impedance triangle?				
A) zero B) maximum C)minimum D)VI ANSWER-A 7. A series R - L - C circuit has R = 1 Ω, L = 1 H and C = 1 F connected across a voltage and line current is 1 A, find energy consumed in one hour A) 36 J B)360 J C)3600 J D)1 J ANSWER-C 8. Power consumed in Resistor is A)VI B)VIcosφ C)VI sinφ D)VI tanφ 9.In pure inductive circuit current voltage by 90° A)lead B)lag C)in phase with D) none 10.power consumed by capacitor is A)VI B) 0 C) VI sinφ D) VIcosφ 11.RMS Value of sinusoidal Voltage is A) Vm/√2 B) 0 C) VI /sinφ D) VI/cosφ ANSWER- 12. Average Value of sinusoidal Voltage is A) Vm/√2 B) 2Vm/π C) VI /sinφ D) VI/cosφ ANSWER-B 13. Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A) 1.11 B) 2 C)√2 D) 4 ANSWER-C 15. Direction of Induced EMF is given by A) Flemings Right hand rule B) Flemings Left hand rule C)Faraday Law D) Lenzs Law ANSWER-A	A) Impedance drop B) Resistance C) reactance D)apparent power				
ANSWER-A 7. A series R - L - C circuit has R = 1 Ω , L = 1 H and C = 1 F connected across a voltage and line current is 1 A, find energy consumed in one hour A) 36 J B)360 J C)3600 J D)1 J ANSWER-C 8. Power consumed in Resistor is A)VI B)VIcos ϕ C)VI sin ϕ D)VI tan ϕ 9. In pure inductive circuit current voltage by 90° A)lead B)lag C)in phase with D) none 10. power consumed by capacitor is A)VI B) 0 C) VI sin ϕ D) VIcos ϕ 11. RMS Value of sinusoidal Voltage is A) Vm/ $\sqrt{2}$ B) 0 C) VI /sin ϕ D) VI/cos ϕ ANSWER- 12. Average Value of sinusoidal Voltage is A) Vm/ $\sqrt{2}$ B) 2Vm/ π C) VI /sin ϕ D) VI/cos ϕ ANSWER-B 13. Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A) 1.11 B) 2 C) $\sqrt{2}$ D) 4 ANSWER-C 15. Direction of Induced EMF is given by A) Flemings Right hand rule B) Flemings Left hand rule C) Faraday Law D) Lenzs Law ANSWER-A	6. The phase angle difference between current and voltage is 90°, the power will be				
line current is 1 A, find energy consumed in one hour A) 36 J B)360 J C)3600 J D)1 J ANSWER-C 8. Power consumed in Resistor is A)VI B)VIcos C)VI sin D)VI tan D)VI tan D 9. In pure inductive circuit current voltage by 90° A)lead B)lag C)in phase with D) none 10. power consumed by capacitor is A)VI B) C) VI sin D) VIcos D) VIcos D 11. RMS Value of sinusoidal Voltage is A) Vm/√2 B) C) VI /sin D) VI/cos D ANSWER- 12. Average Value of sinusoidal Voltage is A) Vm/√2 B) 2Vm/π C) VI /sin D) VI/cos D ANSWER-B 13. Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A)1.11 B) 2 C)√2 D) 4 ANSWER-C 15. Direction of Induced EMF is given by A) Flemings Right hand rule B) Flemings Left hand rule C) Faraday Law D) Lenzs Law ANSWER-A					
A) 36 J B) 360 J C) 3600 J D) 1 J ANSWER-C 8. Power consumed in Resistor is A) VI B) VI cos C) VI sin D) VI tan 9. In pure inductive circuit current voltage by 90° A) lead B) lag C) in phase with D) none 10. power consumed by capacitor is A) VI B) 0 C) VI sin D) VI cos 11. RMS Value of sinusoidal Voltage is A) Vm√2 B) 0 C) VI sin D) VI/cos ANSWER- 12. Average Value of sinusoidal Voltage is A) Vm/√2 B) 2Vm/π C) VI /sin D) VI/cos ANSWER-B 13. Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A) 1.11 B) 2 C) √2 D) 4 ANSWER-C 15. Direction of Induced EMF is given by A) Flemings Right hand rule B) Flemings Left hand rule C) Faraday Law D) Lenzs Law ANSWER-A	7. A series R - L - C circuit has $R = 1 \Omega$, $L = 1 H$ and $C = 1 F$ connected across a voltage and				
ANSWER-C 8. Power consumed in Resistor is A)VI B)VIcosφ C)VI sinφ D)VI tanφ 9. In pure inductive circuit current voltage by 90° A) lead B)lag C)in phase with D) none 10. power consumed by capacitor is A)VI B) 0 C) VI sinφ D) VIcosφ 11. RMS Value of sinusoidal Voltage is A) Vm/√2 B) 0 C) VI /sinφ D) VI/cosφ ANSWER- 12. Average Value of sinusoidal Voltage is A) Vm/√2 B) 2Vm/π C) VI /sinφ D) VI/cosφ ANSWER-B 13. Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A)1.11 B) 2 C)√2 D) 4 ANSWER-C 15. Direction of Induced EMF is given by A) Flemings Right hand rule B) Flemings Left hand rule C) Faraday Law D) Lenzs Law ANSWER-A	line current is 1 A, find energy consumed in one hour				
A)VI B)VIcosφ C)VI sinφ D)VI tanφ 9.In pure inductive circuit current					
9. In pure inductive circuit current	8. Power consumed in Resistor is				
A) lead B)lag C)in phase with D) none 10.power consumed by capacitor is A) VI B) 0 C) VI sinφ D) VIcosφ 11.RMS Value of sinusoidal Voltage is A) Vm/√2 B) 0 C) VI /sinφ D) VI/cosφ ANSWER- 12.Average Value of sinusoidal Voltage is A) Vm/√2 B) 2Vm/π C) VI /sinφ D) VI/cosφ ANSWER-B 13.Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A)1.11 B) 2 C)√2 D) 4 ANSWER-C 15.Direction of Induced EMF is given by A)Flemings Right hand rule B) Flemings Left hand rule C)Faraday Law D) Lenzs Law ANSWER-A	A)VI B)VIcosφ C)VI sinφ D)VI tanφ				
A) VI B) 0 C) VI sinφ D) VIcosφ 11.RMS Value of sinusoidal Voltage is A) Vm/√2 B) 0 C) VI /sinφ D) VI/cosφ ANSWER- 12.Average Value of sinusoidal Voltage is A) Vm/√2 B) 2Vm/π C) VI /sinφ D) VI/cosφ ANSWER-B 13.Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A)1.11 B) 2 C)√2 D) 4 ANSWER-C 15.Direction of Induced EMF is given by A)Flemings Right hand rule B) Flemings Left hand rule C)Faraday Law D) Lenzs Law ANSWER-A	A)lead B)lag C)in phase with D) none				
11.RMS Value of sinusoidal Voltage is A) Vm/√2 B) 0 C) VI /sinφ D) VI/cosφ ANSWER- 12.Average Value of sinusoidal Voltage is A) Vm/√2 B) 2Vm/π C) VI /sinφ D) VI/cosφ ANSWER-B 13.Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A)1.11 B) 2 C)√2 D) 4 ANSWER-C 15.Direction of Induced EMF is given by A)Flemings Right hand rule B) Flemings Left hand rule C)Faraday Law D) Lenzs Law ANSWER-A					
A) Vm/√2 B) 0 C) VI /sinφ D) VI/cosφ ANSWER- 12. Average Value of sinusoidal Voltage is A) Vm/√2 B) 2Vm/π C) VI /sinφ D) VI/cosφ ANSWER-B 13. Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A)1.11 B) 2 C)√2 D) 4 ANSWER-C 15. Direction of Induced EMF is given by A) Flemings Right hand rule B) Flemings Left hand rule C) Faraday Law D) Lenzs Law ANSWER-A	, , , , , , , , , , , , , , , , , , , ,				
ANSWER- 12. Average Value of sinusoidal Voltage is A) Vm/√2 B) 2Vm/π C) VI /sinφ D) VI/cosφ ANSWER-B 13. Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A)1.11 B) 2 C)√2 D) 4 ANSWER-C 15. Direction of Induced EMF is given by A) Flemings Right hand rule B) Flemings Left hand rule C) Faraday Law D) Lenzs Law ANSWER-A	11.RMS Value of sinusoidal Voltage is				
A) Vm/√2 B) 2Vm/π C) VI /sinφ D) VI/cosφ ANSWER-B 13.Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A)1.11 B) 2 C)√2 D) 4 ANSWER-C 15.Direction of Induced EMF is given by A)Flemings Right hand rule B) Flemings Left hand rule C)Faraday Law D) Lenzs Law ANSWER-A					
ANSWER-B 13.Form factor of sinusoidal Voltage is A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A)1.11 B) 2 C)√2 D) 4 ANSWER-C 15.Direction of Induced EMF is given by A)Flemings Right hand rule B) Flemings Left hand rule C)Faraday Law D) Lenzs Law ANSWER-A	12. Average Value of sinusoidal Voltage is				
A) 1.11 B) 2 C) 3 D) 4 ANSWER-A 14. Peak factor of sinusoidal Voltage is A)1.11 B) 2 C)√2 D) 4 ANSWER-C 15. Direction of Induced EMF is given by A)Flemings Right hand rule B) Flemings Left hand rule C)Faraday Law D) Lenzs Law ANSWER-A					
ANSWER-A 14. Peak factor of sinusoidal Voltage is A)1.11 B) 2 C)√2 D) 4 ANSWER-C 15. Direction of Induced EMF is given by A)Flemings Right hand rule B) Flemings Left hand rule C)Faraday Law D) Lenzs Law ANSWER-A	13. Form factor of sinusoidal Voltage is				
A)1.11 B) 2 C)√2 D) 4 ANSWER-C 15.Direction of Induced EMF is given by A)Flemings Right hand rule B) Flemings Left hand rule C)Faraday Law D) Lenzs Law ANSWER-A					
ANSWER-C 15.Direction of Induced EMF is given by A)Flemings Right hand rule B) Flemings Left hand rule C)Faraday Law D) Lenzs Law ANSWER-A	14. Peak factor of sinusoidal Voltage is				
A)Flemings Right hand rule B) Flemings Left hand rule C)Faraday Law D) Lenzs Law ANSWER-A					
ANSWER-A	15.Direction of Induced EMF is given by				
	ANSWER-A				

C)Both D)None of these

17.Power factor (CosФ=						
A)ZR B)RZ ANSWER-C	C)R/Z	D)Z/R					
18.In symmetrica	l wave RMS Valu	ue is calcula	ated for				
A) one Alternatio ANSWER-A	n B) Full Cycle	C)Both	D) None				
19.For Half wave	Rectifier Second	alternation	n is				
A)ZERO B) Pos ANSWER-A	sitive C)Negar	tive I	O) None				
20.50HZ Means							
A) 1 cycle/sec B ANSWER-C	2) 2 Cycles/sec	C)50 Cyc	eles/sec D)50 Cyc	eles/min			
21. How many cy	cles does a sine v	vave go thr	ough in 10s when	its frequency i	s 60HZ	(A)10 cycles	(
ANSWER-C 22. If the peak v	alue of a certain	sine wave v	voltage is 10V, wh	nat is the peak to	o peak value	e?	
(A) 20V ANSWER-D	(B) 10V	(C) 5V	(D) 7.07V				
23. If the peak va	alue of a sine way	ve voltage i	is 5V, then rms va	lue is		(A) 0.707V (B)	3.53
ANSWER-B 24. A phasor repr	esents						
(A)Magnitude	of the quantity		(B)width of the	e quantity			
(C) Magnitude ANSWER-C	e & direction of t	he quantity	D) Phase angle	e of quantity			
25. The form fact	or is the ratio of						
(A) peak value to	r.m.s. value		(B)r.m.s. va	alue to average	value		
(C) average value ANSWER-B	e to r.m.s. value		(D) none				
26. Two waves of them Is	f the same freque	ncy have op	pposite phase who	en the phase ang	gle between		
(A)360° ANSWER-B	(B) 180° (C) 90°	(D) 0°				
27. True Power Is	s Also Called As_						
(A) Active Power ANSWER-D	(B) Real Powe	er (C) Rea	active Power (D)	Both A &B			

- 28. Peak Factor Gives
- (A) Peak Value To R.M.S. Value
- (B) Average Value To Peak Value
- (E) R.M.S. Value To Average Value
- (D) R.M.S. Value To Peak Value

ANSWER-A

- 29. For A Frequency Of 200 Hz, The Time Period Will Be
- (A) 0.05 S(B) 0.005 S(C) 0.0005 S(D) 0.5 S

ANSWER-B

- 30. Power Factor Of An Electrical Circuit Is Equal To
- (A) R/Z(B) Cosine Of Phase Angle Difference Betweencurrent And Voltage
- (C) Kw/Kva(D) Ratio Of Useful Current To Total Current iw/I
- (E) All Above

ANSWER-E

- 31. The Apparent Power Drawn By An A.C. Circuit Is 10 Kva And Active Power Is 8 Kw.
- The Reactive Power In The Circuit Is
- (A) 4 Kvar
- (B) 6 Kvar
- (C) 8 Kvar
- (D) 16 Kvar

ANSWER-B

- 32. In An A.C. Circuit Power Is Dissipated In
- (A) Resistance Only
- (B) Inductance Only
- (C) Capacitance Only
- (D) None Of The Above

ANSWER-A

- 33. A Phasor Is
- (A) A Line Which Represents The Magnitude And Phase Of An Alternating Quantity
- (B) A Line Representing The Magnitude And Direction Of An Alternating Quantity
- (C) A Coloured Tag Or Band For Distinction Between Different Phases Of A 3phase Supply
- (D) An Instrument Used For Measuring Phases Of An Unbalanced

3phase Load

ANSWER-B

- 34. Ohm Is Unit Of All Of The Following Except
- (A) Inductive Reactance(B) Capacitive Reactance
- (C) Resistance
- (D) Capacitance

ANSWER-D

- 35. The Product Of Apparent Power And Cosine Of The Phase Angle Between Circuit Voltage And Current Is
- (A) True Power

(B) Reactive Power

(C) Voltamperes

(D) Instantaneous Power

ANSWER-A

- 36. The Product Of Apparent Power And Sine Of The Phase Angle Between Circuit Voltage And Current Is
- (A) True Power

(B) Reactive Power

(C) Voltamperes

(D) Instantaneous Power

ANSWER-B

37. Which Power Of The Following I	Is The Product Of Voltage And Current Is
(A) True Power (C) Voltamperes ANSWER-C	(B) Reactive Power(D) Instantaneous Power
38. The Power Factor Of A D.C. Circ (A) Less Than Unity (C) Greater Than Unity ANSWER-D	cuit Is Always (B) Unity (D) Zero
39. The Safest Value Of Current The (A) 4 ma (B) 9 ma ANSWER-B	Human Body Can Carry For More Than 3 Second Is (C) 15 ma (D) 25 ma
40. Power Factor Of The Following (A) Inductance (C) Resistance ANSWER-C	(B) Capacitance (D) Both (A) And (B)
41. Power Factor Of The Following C(A) Resistance(B) Inductance(C) Capacitance(D) Both (B) And (C)ANSWER-C	Circuit Will Be Leading
42. The Units For Capacitor Is	
(A) Farads (B) Henry (C) Ohms ANSWER-A	(D) None
43 Formula For Coefficient Of Coup	ling Is
A) $K = \sqrt{L1L2}$	B) $K=M/\sqrt{L1L2}$
$C)K = \overline{J}^{\underline{M}} + L2$ ANSWER-M	D) K=M _f L1/L2
44. The Units For Current Is	
(A) Farads (B) Henry (C) Ohms ANSWER-D	(D) Ampere
 45. All The Rules And Laws Of D.C (A) Capacitance Only (B) Inductance Only (C) Resistance Only (D) All Above ANSWER-D 	. Circuit Also Apply To A.C. Circuit Containing
46. Power Factor Of The System Is k	Kept High

(B) To Maximise The Utilization Of The Capacities OfGenerators, Lines And Transformers

(D) Due To All Above Reasons(E) ANSWER-D

(C) To Reduce Voltage Regulation Of The Line

(A) To Reduce Line Losses

 47. The Units For Resistance Is (A) Farads (B) Henry (C) Ohms (D) Voltage ANSWER-C 48. Power Factor Of An Inductive Circuit Is Usually Improved By Connecting Capacitor to it in (A) Parallel (B) Series (C) Either (A) Or (B) (D) None Of The Above 49. The Range Of Power Factor Value (A) [1 1] (B) [-1 1] (C) [1 0] (D) [0 0.5]
ANSWER-C 48. Power Factor Of An Inductive Circuit Is Usually Improved By Connecting Capacitor to it in (A) Parallel (B) Series (C) Either (A) Or (B) (D) None Of The Above 49. The Range Of Power Factor Value
in (A) Parallel (B) Series (C) Either (A) Or (B) (D) None Of The Above 49. The Range Of Power Factor Value
 (A) Parallel (B) Series (C) Either (A) Or (B) (D) None Of The Above 49. The Range Of Power Factor Value
(C) Either (A) Or (B) (D) None Of The Above 49. The Range Of Power Factor Value
(D) None Of The Above 49. The Range Of Power Factor Value
49. The Range Of Power Factor Value
-
(11)[11] $(12)[11]$ $(12)[10]$ $(12)[10]$
50 For A Sine Waye With Deals Value Imay The D.M.C. Value Is
50. For A Sine Wave With Peak Value Imax The R.M.S. Value Is (A) 0.5 Imax
(B) 0.707
(C) 0.9 (D) 1.414 Lmax
ANSWER-B
INOWER B
1. The copper loss is a loss
A)Fixed B) Variable C) fixed & variable D) all of the above.
2. Core type transformer is acircuit.
A)Single B) double C) Single &double D) none of these
3. In Shell type transformers the core haslimbs
A)One B) two C) three D) four
, , , , , , , , , , , , , , , , , , , ,
11 7
•
9. Salient pole type is also known as
 Salient pole type is also known as A)projecting pole B)non-projecting pole C)cylindrical D)non- cylindrical
A)projecting pole B)non-projecting pole C)cylindrical D)non- cylindrical
A)projecting pole B)non-projecting pole C)cylindrical D)non- cylindrical 10. In alternator frequency f=
A)projecting pole B)non-projecting pole C)cylindrical D)non- cylindrical 10. In alternator frequency f= A)NP/120 B)NP120 C)N/120P D)1/NP120
 A)Fixed B) Variable C) fixed & variable D) all of the above. 2. Core type transformer is a circuit. A)Single B) double C) Single &double D) none of these 3. In Shell type transformers the core has limbs A)One B) two C) three D) four 4. The transformer is a converting device A)Voltage B) current C) frequency D) power 5. Which supply is used for the transformers A)DC B) AC & DC C) AC D) All of the above 6. Input to a alternator is A)A.C B)D.C C) both A.C &D.C D)NONE 7. E.M.F equation of alternator is A)2.22fφz B) 22.2fφz B C) 222fφZ D) 2.1fφz 8. Alternator working principal is A)electromagnetic induction B)self inductance C) mutual inductance D)back emf

12. Transformer	is a device which		
A) Work through voltage.	on electric induction.	B) Can step up or step o	lown the level of
C) All of these		D) Its Working without	changing the Power.
13. The transform A) the reflected in voltages	ner turns ratio determine mpedance	es B)the ratio of primary	and secondary
C) the ratio of pri	imary and secondary cu	arrents D) All of these	
14. A transformer	r has		
A) primary and se	econdary windings, both	n of which are considered ou	itputs
B) primary and so	econdary windings, bot	h of which are considered in	puts
C) a primary wind	ding used as an output a	and a secondary winding use	ed as an input
D) a primary wind	ding used as an input ar	nd a secondary winding used	l as an output
15. The rating of t	transformer may be exp	pressed in	
A) kW	B)KVA	C) Horse power D) KV	VAR
16. An induction	motor works with		
A) DC only	B) AC only	C)both AC & DC	D) none.
17. The relative sp	eed between stator and	rotor fluxes is equal to	
A) Synchronous s	peed Ns	B) Rotor spee	ed N
C) Zero		D) Ns – N	
18.The number of	poles in a 3-phase indu	ction motor is determined b	y
A) supply frequen	ncy	B) Motor spe	ed
C) Both (A) & (B))	D) Supply vo	ltage
19. In modern alter	rnators the rotating part	is	
A) Field	B) Armature C)	Both D)None	
20. The rotor prefer	red for a low speed hyo	lrogenerator is	
A) Salient pole	B)Non salient pole	C) Both D)None	
21. Which of the fo form of energy?	llowing energy can be	easily transformed from one	form to another

A) Electrical Energy B)Fusion energy C)Magnetic energy D)Mechanical energy

22. The thickness of a 50 Hz transformer lamination is

A) 0.35 mm	B) 0.30 cm	m C) 0	35 cm	D) 0.33 m	
	dal exciting current B) Sinusoidal	t is applied to a tr C) Flat top	ansformer, the D) Neg	e mutual flux produced is gative	
· ·	ge regulation of a t ation at full-load 0		_	er factor lag is 6 per cent. Its	
A)Zero	B) Positive	C) 54%	D) Negative		
ANSWER-D					
22. Transfer of electrical power from primary to secondary in a transformer takes place					
A)Electrically ANSWER-D	B) Magnetically	C)None of t	hese	D) Electromagnetically	