1)	What is a thermistor?		
A)	It is a resistor whose resistance is not affected by temperature	B)	It is a resistor whose resistance varies significantly with temperature
C)	It is a resistor which becomes a super conductor at extremely low temperature		It is a resistor which becomes an insulator at extremely low temperatures
Correct Answer:	В		<b>•</b>
2)	A variable resistor with only two terminals is known as		
A)			Wiper
C)	Ammeter	D)	None of these
Correct Answer:	A		
3)	Which of the following is the SI unit for electric potential?	7	
A)			Ampere
C)	Joule	D)	Volt
Correct Answer:	D		•
4)	What is a multimeter?		
A)			It can measure voltage and resistance
C)	It can measure resistance and voltage	D)	It can measure resistance, voltage and current
Correct Answer:			
5)	In which of the following do you find a wiper?		
A)			Rheostat
C)	Both A and B	D)	None of these
Correct Answer:	С		
6)	Which of the following can be used to measure current?		
A)			Tangent galvanometer
C)	Multimeter	D)	All the above
Correct Answer:			
7)	What is 270 <sup>0</sup> equal to?		
A)	п/3	B)	2n/3
C)	3п/2	D)	4п/3
Correct Answer:			
8)	How many primary volts need to be applied to a transformer with 0.2 t	_	
A)		,	200 V
C)	20 V	D)	None of these
Correct Answer:	В		
9)	If we want to step down 160 V to 20 V, what should be the turns ratio?		
A)		B)	0.125
C)	1.25	D)	None of these
Correct Answer:	В		

10)	If the secondary voltage is one-third of the primary voltage in a transformer, what is the secondary current?				
A)	Same as the primary current	B)	One-third of the primary current		
C)	Three times the primary current	D)	Nine times the primary current		
Correct Answer:	С				
11)	A transformer has a turns ratio of 4. What is the secondary voltage wh $0.85$ ?	en	10 volts are applied to the primary and the coupling coefficient is		
A)	40 V	B)	34 V		
C)	2.5 V	D)	None of these		
Correct Answer:	В				
12)	There are 5 equal value resistors connected in series in a circuit. The ${\mathfrak t}$ the resistors?				
A)	70 W	B)	2.8 W		
C)	14 W	D)	None of these		
Correct Answer:	В				
13)	There are three resistors with unequal values connected in series. Which	ch d	of them will have the most voltage drop?		
A)			The one which has the highest resistance		
C)	The one with lowest resistance	D)	All of them will have the same voltage drop		
Correct Answer:	В				
14)	A 12.2 $\Omega$ and a 3.05 $\Omega$ resistors are in series. What is the voltage across				
A)		,	10 V		
C)	6.95 V	D)	None of these		
Correct Answer:	A				
15)	What is the source voltage if 4 equal value resistors connected in serie	s h	ave a voltage drop of 8 volts across each?		
A)	8 V	B)	2 V		
C)	32 V	D)	None of these		
Correct Answer:	С				
16)	What is the efficiency, in percentage, when a power supply produces 6	6 V	/ output using 75 W input?		
A)	75%	B)	66%		
C)	88%	D)	None of these		
Correct Answer:	С				
17)	What is the ampere rating of a power supply which can provide 3.6 am	pei	res for 480 minutes?		
A)	8 Ah	B)	28.8 Ah		
C)	2.88 Ah	D)	1728 Ah		
Correct Answer:	В				
18)	What is the total consumption if you used 200 W of power for 80 hours	?			
A)	16 kWh	B)	16000 Wh		
C)	0.016 MWh	D)	All the above		
Correct Answer:	D				

19)	What is the current when a 16 k $\Omega$ resistor dissipates 2.5 W?						
A)	12.5 mA	B)	12.5 μΑ				
C)	12.5 A		None of these				
Correct Answer:	A						
20)	What is the power dissipated by a 64 $\Omega$ is connected to a 4 volt battery?						
A)	250 W	B)	250 mW				
C)	62.5 mW	D)	None of these				
Correct Answer:	A						
21)	What is the amount of energy used in six minutes when a 30 $\Omega$ resisto	r is	connected to a 21 V source?				
A)	147 Wh	B)	14.7 Wh				
C)	0.147 Wh	D)	None of these				
Correct Answer:	D						
22)	What is the power with 120 mA current and 6 V?		•				
A)	720 mW	B)	0.72 W				
C)	720,000 μW	D)	All the above				
Correct Answer:	D						
23)	Which of the following is a SI unit for power?						
A)	Joule per second	B)	Watt				
C)	Both A and B	D)	None of these				
Correct Answer:	C						
24)	What is the internal resistance of a 10,000 ohm/volt voltmeter set on i	ts 7	7 V range?				
A)	10,000	B)	70,000				
C)	1428.57	D)	None of these				
Correct Answer:	В						
25)	Two 40 k $\Omega$ resistors are in series and one of them is connected in para	llel	with a 10 $k\Omega$ resistor. What is the total resistance?				
A)	48 Ω	B)	90 kΩ				
C)	48 kΩ	D)	None of these				
Correct Answer:							
26)	What is the current flowing through a circuit with three 5 $\Omega$ resistors co $\Omega$ resistors and the voltage source is 48V?	onn	ected in series and a 10 $\Omega$ resistor connected in parallel to one of the 5 $$				
A)	3.6 A	B)	3.6 kA				
C)	1.92 A	D)	None of these				
Correct Answer:	A						
27)	Which of the following is true with respect to a string resistor ladder ne	tw	ork?				
			The resistors act as voltage dividers between the referenced voltages				
C)	-	D)	None of these				
Correct Answer:							

28)	Which of the following rules is applied when a Wheatstone bridge is used to measure an unknown electrical resistance?						
A)	Kirchhoff's first rule	B)	Kirchhoff's second rule				
C)	Both A and B	D)	None of these				
Correct Answer:	С						
29)	Three inductors with values of 8 μH, 18 μH, 24 μH are connected in series. What is the total inductance?						
A)	50 H	B)	50 μH				
C)	50 mH	D)	None of these				
Correct Answer:	В						
30)	What happens to the amount of energy stored in the electromagnetic f	ielc	when the current through an inductor is doubled?				
A)	It doubles	B)	It becomes four times				
C)	It becomes half	D)	It becomes one-fourth				
Correct Answer:	В						
31)	What is the value of magnetic (permeability) constant?		•				
A)	4π×10 <sup>-7</sup> H·m <sup>-1</sup>		4π×10 <sup>-6</sup> H⋅m <sup>-1</sup>				
C)	3π×10 <sup>-7</sup> H⋅m <sup>-1</sup>	D)	3п×10 <sup>-6</sup> H⋅m <sup>-1</sup>				
Correct Answer:	A						
32)	Which of the following devices can be used to convert energy into linea	ar n	notion?				
A)	Solenoid	B)	Solar cell				
C)	Potentiometer	D)	All the above				
Correct Answer:	A						
33)	Which of the following statements is true?						
A)	The inductance is proportional to the square of the number of turns	B)	The inductance decreases directly as the permeability of the core material increases				
C)	Both A and B	D)	None of these				
Correct Answer:	A						
34)	What is the SI unit for capacitance?						
A)	Henry	B)	Farad				
C)	Volt	D)	Watt				
Correct Answer:	В						
35)	Which of the following is used as the dielectric in electrolytic capacitors	?					
A)	Niobium	B)	Tantalum				
C)	Aluminum	D)	All the above				
Correct Answer:	D						
36)	What is dielectric breakdown?						
A)	It is rapid acquisition of infinite amount of resistance by a conductor, thereby becoming a perfect insulator		It is a rapid reduction in the resistance of an electrical insulator, thereby becoming electrically conductive				
C)	It is when a material becomes half conductor and half insulator	D)	None of these				
Correct Answer:	В						

Correct Answer: C  A) Mich of the following has the highest relative permittivity at room temperature?  A) Teflon  B) Palpyropylerie  C) Paper  Correct Answer: C  39) What happens to the capacitance when the plate area of a capacitor decreases  A) It increases  B) It increases  C) It decreases  C) It decreases  C) It decreases  C) It decreases  C) It also 0  A) Simple three-phase generator consists of three conductive loops separated by  A) 60°  C) 180°  C)	37)	When an electric current increases the charge of one plate of the capacitor, what happens to the charge on the other plate?						
Correct Answer: C	A)	It decreases by the same amount	B)	It remains the same				
38) Which of the following has the highest relative permittivity at room temperature? A) Teffon   8)Polypropylene C) Paper   0)Vacuum Correct Answer: C     0 39) What is the requency of an alternator which makes 3000 revolutions per minute and has 2 poles? A) Nat is the current flowing through a 3,5 MΩ connected to a 220 V source? A) 100 HA is the resistance required to draw 4.8 mA from a 6 V source? A) What is the voltage of the source when 5 A current is measured through 2.2 A gressistor? A) What is the voltage of the source when 5 A current is measured through 2.2 A gressistor? A) What is the voltage of the source when 5 A current is measured through 2.2 A gressistor? A) May a feet the source when 5 A current is measured through 2.2 A gressistor? A) (1,1,1) What is the voltage of the source when 5 A current is measured through 2.2 A gressistor? A) (1,1,1) What is the voltage of the source when 5 A current is measured through 2.2 A gressistor? A) (1,1,1) What is the voltage of the source when 5 A current is measured through 2.2 A gressistor? A) (1,1,1) What is the voltage of the source when 5 A current is measured through 2.2 A gressistor? A) (1,1,1) What is the voltage of the source when 5 A current is measured through 2.2 A gressistor? A) (1,1,1) What is the voltage of the source when 5 A current is measured through 2.2 A gressistor? A) (1,1,1) What is the voltage of the source when 5 A current is measured through 2.2 A gressistor? A) (1,1,1) What is the voltage of the source when 5 A current is measured through 2.2 A gressistor? A) (1,1,1) What is the voltage of the source when 5 A current is measured through 2.2 A gressistor? B) None of these	C)	It decreases by the same amount	D)	It becomes zero				
A) Teflon B) Polypropylene C) Paper D) Vacuum Correct Answer: C 39) What happens to the capacitance when the plate area of a capacitor decreases? A) It increases B) It does not change C) It decreases Correct Answer: C 40) A simple three-phase generator consists of three conductive loops separated by A) 60° C) 180° C) 190° C) 190° C) 190° Correct Answer: B A) Always a stator C) Either a stator or rotor C) Either a stator or rotor C) DAlways a stator in a motor and rotor in a generator consists of the motor and rotor in a generator consists of the motor and rotor in a generator consists of three conductive loops separated by A) Always a stator C) Either a stator or rotor C) DAlways a stator C) Either a stator or rotor C) DN None of these C) 750 Hz D) None of these Correct Answer: B A) 40 A B) 40 A C) 750 Hz D) None of these Correct Answer: B A) 40 A B) 40 MA C) 40 JA C) Always a stator C) B) None of these Correct Answer: C A) What is the resistance required to draw 4.8 mA from a 6 V source? A) Motor of these Correct Answer: C A) None of these Correct Answer: C A) None of these Correct Answer: B B) None of these	Correct Answer:	С						
Correct Answer: Correct Answer: C What happens to the capacitance when the plate area of a capacitor decreases? A) It increases B) It does not change C) It decreases C) A simple three-phase generator consists of three conductive loops separated by A) A) B(0° B) 120° Correct Answer: B A) A line armature in an electrical machine is A) Always a stator C) Either a stator or rotor D) Always a stator or rotor D) Always a stator in a motor and rotor in a generator correct Answer: C) Either a stator or rotor D) Always a stator in a motor and rotor in a generator correct Answer: C) Correct Answer: C) B) Always a stator or rotor D) Always a stator or rotor D) Always a stator or rotor D) Always a stator in a motor and rotor in a generator correct Answer: C) Correct Answer: C) B) 50 Hz D) None of these Correct Answer: B A) A) A) A) A) B) 40 A B) 40 A B) 40 MA C) A) A) A) A) B) 40 MA C) A) A) B) 40 MA B) 40 MA C) A) B) Always is the resistance required to draw 4.8 mA from a 6 V source? A) A) A) B) 1250 M B) 1250 M B) 1250 M C) Correct Answer: B A B) Correct Answer: B B) Correct Answer: C) Correct Answer: C) Correct Answer: C) B) Correct Answer: C) D) None of these Correct Answer: C) Correct Answer: C) D) None of these Correct Answer: C) Correct Answer: C) Correct Answer: C) D) None of these	38)	Which of the following has the highest relative permittivity at room temperature?						
Correct Answer: C 39) What happens to the capacitance when the plate area of a capacitor decreases? A) It increases C) It decreases C) It decreases C) It decreases C) A simple three-phase generator consists of three conductive loops separated by A) 60° C) 180°	A)	Teflon	B)	Polypropylene				
What happens to the capacitance when the plate area of a capacitor decreases?   A)   It increases   B) It does not change	C)	Paper	D)	Vacuum				
A) It increases C) It decreases D) It approaches infinity Correct Answer: C 40) A simple three-phase generator consists of three conductive loops separated by A) 60° D) 360° C) 180° C) 180° C) 180° C) 180° A) Always a stator B) Always a stator B) Always a stator B) Always a stator C) Either a stator or rotor D) Always a stator in a motor and rotor in a generator Correct Answer: C 42) What is the frequency of an alternator which makes 3000 revolutions per minute and has 2 poles? A) 100 Hz D) None of these Correct Answer: B A3) What is the current flowing through a \$.5 MΩ connected to a 220 V source? A) 40 A C) 40 μA D) None of these Correct Answer: C A41) What is the resistance required to draw 4.8 mA from a 6 V source? A) 1250 mΩ C) 125 Ω D) None of these Correct Answer: B A5) What is the voltage of the source when 5 A current is measured through 2.2 Ω resistor? A) 1.1 V C) 0.44V	Correct Answer:	С						
Correct Answer: C  40) A simple three-phase generator consists of three conductive loops separated by	39)	What happens to the capacitance when the plate area of a capacitor de	cre	eases?				
Correct Answer: C 40) A simple three-phase generator consists of three conductive loops separated by	A)	It increases	B)	It does not change				
A simple three-phase generator consists of three conductive loops separated by	C)	It decreases	D)	It approaches infinity				
A) 60° B) 120° C) 180° D) 360° Correct Answer: B  41) The armature in an electrical machine is	Correct Answer:	С						
Correct Answer: B  41) The armature in an electrical machine is	40)	A simple three-phase generator consists of three conductive loops sepa	rat	ed by				
Correct Answer: B 41) The armature in an electrical machine is	A)							
A1) The armature in an electrical machine is	C)	180°	D)	360°				
A) Always a stator  B) Always a rotor  C) Either a stator or rotor  D) Always a stator in a motor and rotor in a generator  Correct Answer: C  42) What is the frequency of an alternator which makes 3000 revolutions per minute and has 2 poles?  A) 100 Hz  B) 50 Hz  C) 750 Hz  D) None of these  Correct Answer: B  43) What is the current flowing through a 5,5 MΩ connected to a 220 V source?  A) 40 A  B) 40 MA  C) 40 μA  D) None of these  Correct Answer: C  44) What is the resistance required to draw 4.8 mA from a 6 V source?  A) 1250 mΩ  B) 1250 Ω  D) None of these  Correct Answer: B  45) What is the voltage of the source when 5 A current is measured through 2.2 Ω resistor?  A) 1.1 V  B) 11 V  C) 0.44V	Correct Answer:	В						
COrrect Answer: C  42) What is the frequency of an alternator which makes 3000 revolutions per minute and has 2 poles?  A) 100 Hz  B) 50 Hz  Correct Answer: B  43) What is the current flowing through a 5,5 MΩ connected to a 220 V source?  A) 40 A  B) 40 MA  C) 40 μA  C) 40 μ	41)	The armature in an electrical machine is						
Correct Answer: C  42) What is the frequency of an alternator which makes 3000 revolutions per minute and has 2 poles?  A) 100 Hz  B) 50 Hz  C) 750 Hz  D) None of these  Correct Answer: B  43) What is the current flowing through a \$.5 MΩ connected to a 220 V source?  A) 40 A  B) 40 MA  C) 40 μA  C) None of these  Correct Answer: C  What is the resistance required to draw 4.8 mA from a 6 V source?  A) 1250 mΩ  B) 1250 Ω  C) 125 Ω  D) None of these  Correct Answer: B  45) What is the voltage of the source when 5 A current is measured through 2.2 Ω resistor?  A) 1.1 V  B) 11 V  C) 0.44V  D) None of these	A)	Always a stator	B)	Always a rotor				
What is the frequency of an alternator which makes 3000 revolutions per minute and has 2 poles?  A) 100 Hz B) 50 Hz  C) 750 Hz D) None of these  Correct Answer: B  43) What is the current flowing through a 5.5 MΩ connected to a 220 V source?  A) 40 A B) 40 MA  C) 40 μA D) None of these  Correct Answer: C  44) What is the resistance required to draw 4.8 mA from a 6 V source?  A) 1250 mΩ B) 1250 Ω  C) 125 Ω D) None of these  Correct Answer: B  45) What is the voltage of the source when 5 A current is measured through 2.2 Ω resistor?  A) 1.1 V B) 11 V  C) 0.44V  D) None of these	C)	Either a stator or rotor	D)	Always a stator in a motor and rotor in a generator				
A) 100 Hz B) 50 Hz  C) 750 Hz D) None of these  Correct Answer: B  43) What is the current flowing through a 5.5 MΩ connected to a 220 V source?  A) 40 A B) 40 MA  C) 40 μA D) None of these  Correct Answer: C  44) What is the resistance required to draw 4.8 mA from a 6 V source?  A) 1250 mΩ B) 1250 Ω  C) 125 Ω D) None of these  Correct Answer: B  45) What is the voltage of the source when 5 A current is measured through 2.2 Ω resistor?  A) 1.1 V B) 11 V  C) 0.44V  D) None of these								
Correct Answer: B  43) What is the current flowing through a 5,5 MΩ connected to a 220 V source?  A) 40 A  B) 40 MA  C) 40 μA  C) None of these  Correct Answer: C  44) What is the resistance required to draw 4.8 mA from a 6 V source?  A) 1250 mΩ  C) 125 Ω  D) None of these  Correct Answer: B  45) What is the voltage of the source when 5 A current is measured through 2.2 Ω resistor?  A) 1.1 V  C) 0.44V  D) None of these	42)							
Correct Answer: B  43) What is the current flowing through a 5.5 M $\Omega$ connected to a 220 V source?  A) 40 A  B) 40 MA  C) 40 $\mu$ A  Correct Answer: C  44) What is the resistance required to draw 4.8 mA from a 6 V source?  A) 1250 m $\Omega$ B) 1250 $\Omega$ C) 125 $\Omega$ D) None of these  Correct Answer: B  45) What is the voltage of the source when 5 A current is measured through 2.2 $\Omega$ resistor?  A) 1.1 V  C) 0.44V  D) None of these	A)	100 Hz	B)	50 Hz				
What is the current flowing through a \$.5 MΩ connected to a 220 V source?  A) 40 A B) 40 MA  C) 40 μA D) None of these  Correct Answer: C  What is the resistance required to draw 4.8 mA from a 6 V source?  A) 1250 mΩ B) 1250 Ω  C) 125 Ω D) None of these  Correct Answer: B  45) What is the voltage of the source when 5 A current is measured through 2.2 $\Omega$ resistor?  A) 1.1 V  C) 0.44V  D) None of these	C)	750 Hz	D)	None of these				
A) 40 A B) 40 MA C) 40 $\mu$ A D) None of these Correct Answer: C 44) What is the resistance required to draw 4.8 mA from a 6 V source? A) 1250 m $\Omega$ B) 1250 $\Omega$ C) 125 $\Omega$ D) None of these Correct Answer: B 45) What is the voltage of the source when 5 A current is measured through 2.2 $\Omega$ resistor? A) 1.1 V C) 0.44V D) None of these	Correct Answer:	В						
C) 40 $\mu$ A D) None of these  Correct Answer: C  44) What is the resistance required to draw 4.8 mA from a 6 V source?  A) 1250 $\mu$ C D) None of these  C) 125 $\mu$ C D) None of these  Correct Answer: B  45) What is the voltage of the source when 5 A current is measured through 2.2 $\mu$ C resistor?  A) 1.1 V B) 11 V  C) 0.44V D) None of these	43)	What is the current flowing through a 5.5 M $\Omega$ connected to a 220 V sou	ırce	2?				
Correct Answer: C  44) What is the resistance required to draw 4.8 mA from a 6 V source?  A) 1250 m $\Omega$ B) 1250 $\Omega$ C) 125 $\Omega$ Correct Answer: B  45) What is the voltage of the source when 5 A current is measured through 2.2 $\Omega$ resistor?  A) 1.1 V  B) 11 V  C) 0.44V  D) None of these	A)	40 A	B)	40 MA				
44) What is the resistance required to draw 4.8 mA from a 6 V source?  A) 1250 mΩ B) 1250 Ω  C) 125 Ω D) None of these  Correct Answer: B  45) What is the voltage of the source when 5 A current is measured through 2.2 Ω resistor?  A) 1.1 V B) 11 V  C) 0.44V D) None of these	C)	40 μΑ	D)	None of these				
A) $1250 \text{ m}\Omega$ B) $1250 \Omega$ C) $125 \Omega$ D) None of these Correct Answer: B 45) What is the voltage of the source when 5 A current is measured through 2.2 $\Omega$ resistor? A) 1.1 V C) 0.44V D) None of these								
C) 125 Ω D) None of these  Correct Answer: B  45) What is the voltage of the source when 5 A current is measured through 2.2 Ω resistor?  A) 1.1 V  C) 0.44V  D) None of these	44)							
Correct Answer: B  45) What is the voltage of the source when 5 A current is measured through 2.2 Ω resistor?  A) 1.1 V  C) 0.44V  D) None of these	,							
What is the voltage of the source when 5 A current is measured through 2.2 Ω resistor?  A) 1.1 V  C) D) None of these	C)	125 Ω	D)	None of these				
A) 1.1 V B) 11 V C) 0.44V D) None of these								
C) D) None of these	45)							
	A)							
Correct Answer: B	C)	0.4 <mark>4V</mark>	D)	None of these				
	Correct Answer:	В						

46)	What should the increase in the voltage from the present 12 V, if you want to increase the amount of current in a resistor from 120 mA to 240 mA?				
A)	12 V	B)	24 V		
C)	36 V	D)	None of these		
Correct Answer:	A				
47)	Given that the magnetic flux in 0.2 m <sup>2</sup> is 800 µWb, what is the flux der	nsit	y?		
A)	160 μΤ	B)	4000 T		
C)	4000 μT	D)	None of these		
Correct Answer:	C				
48)	What is the SI unit for magnetic reluctance?	7			
A)	Ω	B)	At		
C)	At/m	D)	At/Wb		
Correct Answer:	D		<b>♦</b>		
49)	What is the inverse of reluctance?	1			
A)	Resistance	B)	Inductance		
C)	Permeance	D)	None of these		
Correct Answer:	C				
50)	The value of coupling coefficient is always between				
A)	0 and 1	B)	-1 and 1		
C)	-1 and 0	D)	None of these		
Correct Answer:	A				
51)	What is skin effect?				
A)	It is the phenomenon where the electric current flows away from the skin of the conductor	B)	It is the phenomenon where the electric current flows mainly at the skin of the conductor		
C)	It is the phenomenon where the electric current flows outside the skin of the insulator	D)	None of these		
Correct Answer:	В				
52)	What is the mutual inductance when the coupling coefficient is 0.4 and	the	e individual inductances of two coils are 20 H and 45 H, respectively?		
A)	360 H	B)	12 H		
C)	26 H	D)	None of these		
Correct Answer:	В				
53)	What happens when the south pole of a bar magnet is brought close to	th	e north pole of a horse shoe magnet?		
A)	They attract each other	B)	They repel each other		
C)	The north pole is pushed northwards and the south pole is pushed southwards	D)	Both lose their magnetic properties		
Correct Answer:	A				

54)	Retentivity is also known as				
A)	Retained reluctance	B)	Residual magnetism		
C)	Residual inductance	D)	None of these		
Correct Answer:	В				
55)	Which of the following use the principle of hysteresis?				
A)	Thermostat	B)	Latching relay		
C)	Both A and B	D)	None of these		
Correct Answer:	С				
56)	What is the induced current when a 275 $\Omega$ resistor is connected to a co	il a	n induced voltage of 220 V?		
• • •	0.8 A	_	8 A		
C)	60.5 A	D)	None of these		
Correct Answer:					
57)	What happens to the induced voltage when a stationary conductor is in				
A)			It decreases		
C)	It doubles	D)	It will be zero		
Correct Answer:	D				
58)	Lenz's law defines				
A)	The magnitude of induced current in relation to the effect which produces it	B)	The direction of induced current in relation to the effect which produces it		
C)	P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D)	None of these		
Correct Answer:	В				
59)	What is the magnetomotive force when 5 A of current flows through a	wir	e with 25 turns?		
A)	5 At	B)	125 mAt		
C)	125 At	D)	None of these		
Correct Answer:	С				
60)	What happens to magnetomotive force when reluctance increases?				
A)	It increases	B)	It decreases		
C)	It remains the same	D)	It kills the entire magnetic flux		
Correct Answer:	A				
61)	Which of the following is true with a solid state relay?				
A)	They use semiconductor devices such as thyristors	B)	They are faster than electro-mechanical relays		
C)	They do not have any moving parts	D)	All the above		
Correct Answer:	D				
62)	If two conductors carrying current in opposite direction are lying paralle	el a	and close to each other, then they		
A)	Repel each other	B)	Attract each other		
C)	Neither repel or attract each other	D)	Cancel each other's current		
Correct Answer:	A				

63)	The the ability of a ferromagnetic material to withstand an external magnetic field without becoming demagnetized is called						
A)	Unreluctance	B)	Coercivity				
C)	Stubbornity	D)	None of these				
Correct Answer:	В						
64)	Which of the following leads to demagnetizing a ferromagnetic material?						
A)	Washing with strong soap water	B)	Heating beyond its Curie temperature				
C)	Encasing inside a rayon cove	D)	None of these				
Correct Answer:	В						
65)	What is the disadvantage of DC transmission?						
A)	Transmission losses are very high	B)	Step up and step down of DC voltages are difficult				
C)	They can be used only in very high altitude	D)	None of these				
Correct Answer:	В						
66)	Which of the following is used to in ungrounded 3-phase grounding sys						
A)	Rogowski coil	B)	Peterson coil				
C)	Both A and B	D)	None of these				
Correct Answer:	В						
67)	Which of the following can be used for reducing the skin effect?						
A)	Use of a hollow pipe with a conducting wall	B)	Use of Litz wire				
C)	Both A and B	D)	None of these				
Correct Answer:	C						
68)	What is the effect of mechanical stress on a piezoelectric crystal?						
A)	It deforms the crystal	B)	It reverses the magnetic poles of the crystal				
C)	It leads to electrical polarization in the crystal	D)	None of these				
Correct Answer:	C						
69)	A semiconductor material, at absolute zero degrees temperature, acts	as	which of the following?				
A)	A perfect conductor	B)	A perfect insulator				
C)	A perfect conductor or insulator depending on the atmospheric pressure	D)	None of these				
Correct Answer:							
70)	What happens to the reverse saturation current of a diode when the te	mp	erature increases?				
			It decreases				
		_	It remains the same				
Correct Answer:		Ĺ					
71)	The secondary load resistance of transformer with 50 turns in the prim reflective resistance?	ary	winding and 20 turns in the secondary winding is $1200\Omega$ . What is the				
A)		B)	7.5 kΩ				
C)			None of these				
Correct Answer:							

72)	When 12 percent of the total flux generated in the primary does not pass through the secondary in a particular transformer, what is the coefficient of coupling for the transformer?				
A)	12%	B)	112%		
C)	88%	D)	None of these		
Correct Answer:	С				
73)	What is the output power to the load when the input power to the prim	ary	of a transformer is 140 W and 4.8 W is lost to the winding resistance?		
A)	144.8 W	B)	135.2 W		
C)	4.8 W	D)	None of these		
Correct Answer:	В				
74)	The phenomenon where there is an increase in voltage occurring at the sending end is called				
A)	Ferranti effect	B)	Litz effect		
C)	Faraday phenomenon	D)	Maxwell effect		
Correct Answer:	A				
75)	Which of the following is an advantage of bundle conductors as compar	ed	to single conductor?		
A)			Lower level of reactance		
C)	Reduce line losses due to faster cooling	D)	All the above		
Correct Answer:	D				
76)	Manik received Rs. 28,520 as a repayment of loan (principal and intere and the interest is calculated on a simple interest basis, what was the part of				
A)	Rs. 25,000	B)	Rs. 23,452		
C)	Rs. 23,000	D)	None of these		
Correct Answer:	C				
77)	Which of the following cities do not have a functional metro rail system	in	India?		
A)		,	Kolkata		
C)	Hyderabad	D)	Bangalore		
Correct Answer:	C				
78)	ALU, in the context of computers, stands for				
A)	Automatic logic unit	B)	Arithmetic logic unit		
C)	Amplified logic unification	D)	Algebraic logical unit		
Correct Answer:	В				
79)	If one were to look for the famous "Rock Garden" in India, where shou	ld c	one go?		
A)		,	Mumbai		
C)	Chandigarh	D)	Kolkata		
Correct Answer:	C				
80)	Three-fourth of two-fifth of a number is equal to 48. What is 165% of	th	at number?		
A)	280	B)	264		
C)	310	D)	None of these		
Correct Answer:	В				

	Identify the odd one out?						
A)		B)	Sachin Tendulkar				
C)	Manmohan Singh	D)	Atal Bihari Vajpayee				
Correct Answer:	С						
82)	Where was the "Green Revolution" in India started?						
A)	Punjab	B)	Uttar Pradesh				
C)	Maharashtra	D)	Andhra Pradesh				
Correct Answer:	A		\V)				
83)	The term "Orange Revolution" is used in the context of which country?						
A)	India	B)	China				
C)	Russia	D)	Ukraine				
Correct Answer:	D						
84)	Who amongst these was the first woman prime minister of a country?		•				
A)	India Gandhi	B)	Sirimavo Bandaranaike				
C)	Margaret Thatcher	D)	Hilary Clinton				
Correct Answer:	В						
85)	Consider a rectangular solid of a given volume, i.e., the base is rectang the base is reduced by 20%; the other side is left unaltered. How much	jula 1 wi	r. The height of the solid is increased by 50% while one of the sides of ill this case the volume of the solid to change by?				
A)	Increase by 120%	B)	Decrease by 120%				
C)	Remain unchanged	D)	Cannot be determined				
Correct Answer:	A						
86)	In 1962, India was engaged in a war with						
A)	Pakistan	B)	Burma				
C)	China	D)	Bangladesh				
Correct Answer:							
87)	Who founded the famous Mughal dynasty in India?						
A)			Humayun				
C)	Akbar	D)	None of them				
Correct Answer:	A •						
88)	The national song of India is						
A)			First two verses of Sare Jahan Se Accha				
C)	First two verses of Vande Mataram	D)	None of these				
Correct Answer:	С						
89)	In a computer, the ALU stands for						
A)		_	Arithmetic Link Unit				
C)	Analog Logic Unit	D)	None of these				
Correct Answer:	A						

90)	The sum of the first 100 numbers is				
A)	5050	B) 5	5000		
C)	10000		7843		
Correct Answer:		- //	0.10		
	When was the Preamble to the India Constitution last amended?				
A)	2013	B) 1	1976		
C)	1982	D) 1			
Correct Answer:	В	- / -			
92)	A bag contains 5 golden and 7 blue balls. One ball is drawn at random back in to the bag. Another ball is now drawn at random. What is the p	– it	is found to be golden; after noting the colour of the ball, it is not put ability that the second ball drawn is golden?		
A)	(5/12)	B) (	4/11)		
C)	(1/2)	D)(	6/11)		
Correct Answer:	В				
93)	Currently, Hyderabad is the capital of				
A)	Andhra Pradesh	B) T	elengana		
C)	Both Andhra Pradesh and Telengana	D) N	Neither Andhra Pradesh nor Telengana		
Correct Answer:	С				
94)	Which of the following is a correct statement?				
A)	1 metre = 10 decimetres	B) 1	metre = 100 centimetres		
C)	1 metre = 1000 millimetres	D) A	All of the above		
Correct Answer:	D				
95)	The cube root of the square of 729 is				
A)	729	B) 8	31		
C)	8681	D) N	None of these		
Correct Answer:					
96)	Consider the following equation: $((11 * 12) + (96 \div 4)) = X^2 - 100$ . G	iven	this, X =		
A)	256	B) 1	1.6		
C)	14	D) 1	17		
Correct Answer:	В				
97)	Who amongst the following cricketers has the distinction of having batt	ed c	on all 5 days of a cricket test match?		
A)	Sunil Gavaskar	B) (	Geoffrey Boycott		
C)	Ravi Shastri	D) V	/ivian Richards		
Correct Answer:	С				
98)	The diagonal of the floor of a rectangular store room is 7.5 feet. The shorter side of the store room is 4.5 feet. How much is the longer side of the store room?				
A)	5.25 feet		.3.5 feet		
C)	6 feet	D)3	37 feet		
Correct Answer:	C				

99)	The classical dance form of Kerala is			
A)	Kathakali	B)	Bhangra	
C)	Kuchipudi	D)	Odissi	
Correct Answer:	A			
,	A man starts from point A to get to point B. The road makes the man t further 3 kilometres due north to reach point B. If the man could have travel?		· · · · · · · · · · · · · · · · · · ·	
A)	11 kilometres	B)	4 kilometres	
C)	8 kilometres	D)	6 kilometres	
Correct Answer:	В	\		