

Padasalai⁹S Telegram Groups!

(தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்!)

- Padasalai's NEWS Group https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA
- Padasalai's Channel Group https://t.me/padasalaichannel
- Lesson Plan Group https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw
- 12th Standard Group https://t.me/Padasalai 12th
- 11th Standard Group https://t.me/Padasalai_11th
- 10th Standard Group https://t.me/Padasalai_10th
- 9th Standard Group https://t.me/Padasalai 9th
- 6th to 8th Standard Group https://t.me/Padasalai_6to8
- 1st to 5th Standard Group https://t.me/Padasalai_1to5
- TET Group https://t.me/Padasalai_TET
- PGTRB Group https://t.me/Padasalai_PGTRB
- TNPSC Group https://t.me/Padasalai_TNPSC

SAIVEERA ACADEMY - 8098850809 REVOLUTION FOR LEARNING, COIMBATORE

12TH PHYSICS UNIT 1 -5 ONE MARKS (BOOK BACK AND BOOK INSII

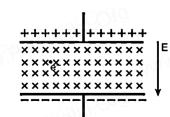
Marks:100	Time : 1hr 45 min

- 1. Which charge configuration produces a uniform electric field?
- (a) point Charge

(b) infinite uniform line charge

(c) uniformly charged infinite plane

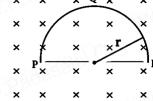
- (d) uniformly charged spherical shell
- 2. . A carbon resistor of (47 ± 4.7) k Ω to be marked with rings of different colours for its identification. The colour code sequence will be
- a) Yellow Green Violet Gold
- b) Yellow Violet Orange Silver
- c) Violet Yellow Orange Silver
- d) Green Orange Violet Gold
- 3. An electron moves straight inside a charged parallel plate capacitor of uniform charge density σ . The time taken by the electron to cross the parallel plate capacitor when the plates of the capacitor are kept under constant magnetic field of induction \vec{E} is



(a) $\varepsilon_0 \frac{elB}{\sigma}$ (c) $\varepsilon_0 \frac{lB}{\sigma e}$

(b) $\varepsilon_0 \frac{lB}{\sigma l}$ (d) $\varepsilon_0 \frac{lB}{\sigma}$

- 4. A thin semi-circular conducting ring (PQR) of radius r is falling with its plane vertical in a horizontal magnetic field B, as shown in the figure. The potential difference developed across the ring when its speed v, is
- (a) Zero
- (b) $\frac{Bv\pi r^2}{2}$ and P is at higher potential
- (c) πrBv and R is at higher potential
- (d) 2rBvand R is at higher potential



- 5. Two identical conducting balls having positive charges q₁ and q₂ are separated by a center to center distance r. If they are made to touch each other and then separated to the same distance, the force between them will be
- (a) less than before

(b) same as before

(c) more than before

- (d) zero
- 6. The force experienced by a particle having mass m and charge q accelerated through a potential difference V when it kept under perpendicular magnetic field \vec{B} is

$$(a)\sqrt{\frac{2q^3BV}{m}}$$

(b) $\sqrt{\frac{2q^3B^2V}{2m}}$ (c) $\sqrt{\frac{2q^3B^2V}{m}}$

(d)
$$\sqrt{\frac{2q^3BV}{m^3}}$$

- 7.Two wires of A and B with circular cross section made up of the same material with equal lengths. Suppose $R_A = 3 R_B$, then what is the ratio of radius of wire A to that of B?
- (b) $\sqrt{3}$

(c) $1/\sqrt{3}$

- 8. . A circular coil of radius 5 cm and 50 turns carries a current of 3 ampere. The magnetic dipole moment of the coil is
- (a) $1.0 \text{ amp} \text{m}^2$
- (b) $1.2 \text{ amp} \text{m}^2$ (c) $0.5 \text{ amp} \text{m}^2$
- (d) $0.8 \text{ amp} \text{m}^2$
- 9. A parallel plate capacitor stores a charge Q at a voltage V. Suppose the area of the parallel plate capacitor and the distance between the plates are each doubled then which is the quantity that will change?
- (a) Capacitance
- (b) Charge
- (c) Voltage
- (d) Energy density

N C⁻¹. It experiences a torque equal to 8 N m. The charge on the dipole if the dipole length is

(c)

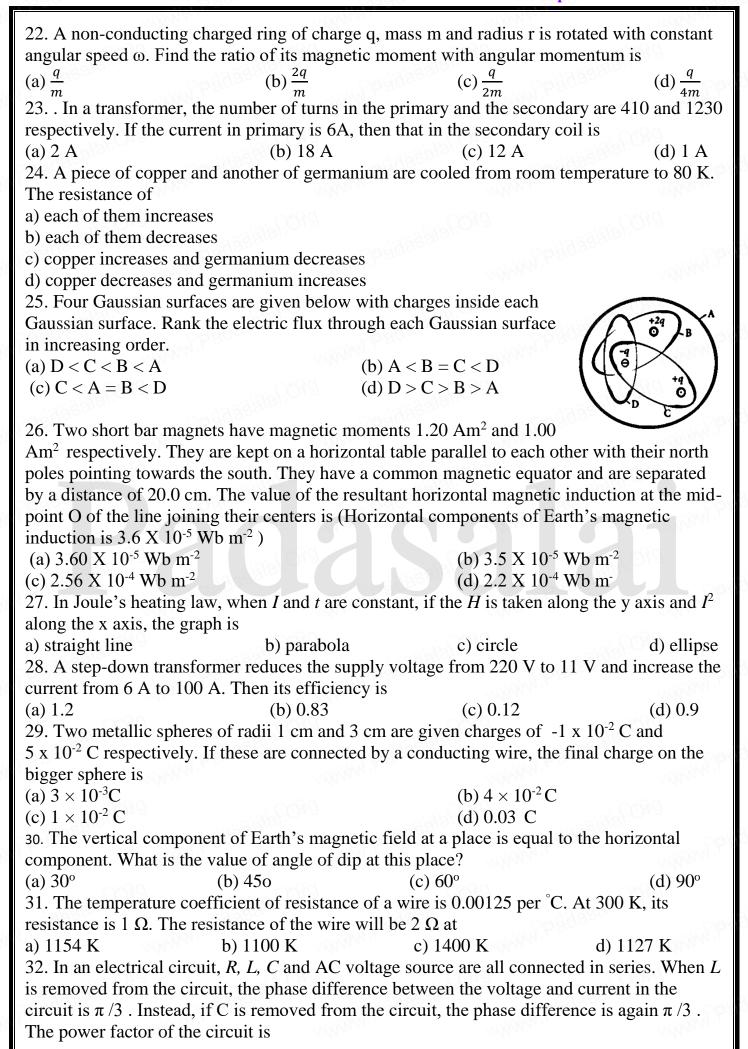
8 mC

(d) 7 mC

1 cm is

(a) 4 mC

(b) 5 mC



www.Padasalai.Net (d) $\sqrt{3}/2$ (b) $1/\sqrt{2}$ (a) 1/2(c) 1 33. Three capacitors are connected in triangle as shown in the figure. The equivalent capacitance between the points A and C is (b) $2 \mu F$ (a) 1µF (c) $3 \mu F$ (d) $1/4 \mu F$ 34. The dimension of $\frac{1}{\mu_0 \varepsilon_0}$ is (b) $[L^2 T^{-2}]$ (d) $[L^{-2} T^2]$ (a) $[L T^{-1}]$ (c) $[L^{-1}T]$ 35. A wire connected to a power supply of 230 V has power dissipation P₁. Suppose the wire is cut into two equal pieces and connected parallel to the same power supply. In this case

power dissipation is P_2 The ratio. $\frac{P_2}{P_*}$ is

- 36. Which of the following are false for electromagnetic waves
- (a) transverse
- (b) mechanical waves
- (c) longitudinal
- (d) produced by accelerating charges
- 37. Two points A and B are maintained at a potential of 7 V and -4 V respectively. The work done in moving 50 electrons from A to B is
- (a) $8.80 \times 10^{-17} \text{ J}$

(b) $-8.80 \times 10^{-17} \text{ J}$

(c) 4.40×10^{-17} J

- (d) $5.80 \times 10^{-17} \,\mathrm{J}$
- 38. The electric and the magnetic field, associated with an electromagnetic wave, propagating along X axis can be represented by
- (a) $\vec{E} = E_o \hat{j}$ and $\vec{B} = B_o \hat{k}$

(b) $\vec{E} = E_o \hat{k}$ and $\vec{B} = B_o \hat{j}$

(d) 4

(c) $\vec{E} = E_o \hat{\imath}$ and $\vec{B} = B_o \hat{\jmath}$

- (d) $\vec{E} = E_0 \hat{i}$ and $\vec{B} = B_0 \hat{i}$
- 39. A toaster operating at 240 V has a resistance of 120 Ω . The power is
- a) 400 W

- b) 2 W
- c) 480 W
- 40. A simple pendulum with charged bob is oscillating with time period T and let θ be the angular displacement. If the uniform magnetic field is switched ON in a direction perpendicular to the plane of oscillation then
- (a) time period will decrease but θ will remain constant
- (b) time period remain constant but θ will decrease
- (c) both T and θ will remain the same
- (d) both T and θ will decrease
- 41. In a series RL circuit, the resistance and inductive reactance are the same. Then the phase difference between the voltage and current in the circuit is
- (a) $\pi/4$

(b) $\pi/2$

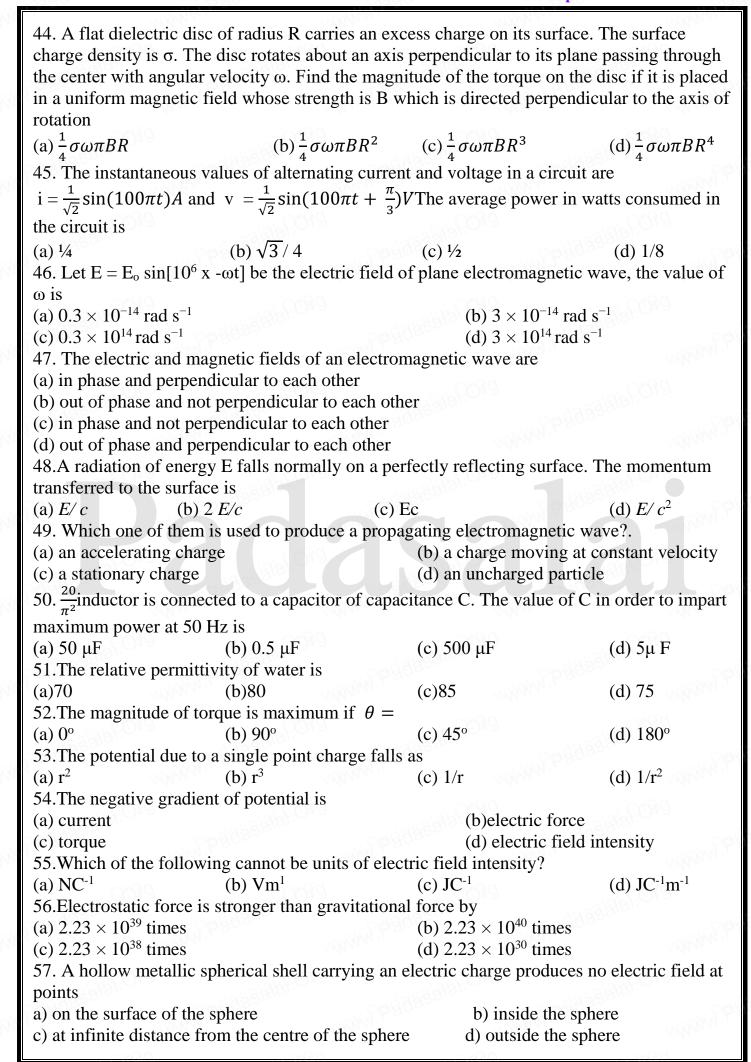
- $(c)\pi/6$
- (d) zero
- 42. In an electromagnetic wave in free space the rms value of the electric field is 3 V m⁻¹. The peak value of the magnetic field is
- (a) 1.414×10^{-8} T

(b) 1.0×10^{-8} T

(c) 2.828×10^{-8} T

- (d) 2.0×10^{-8} T
- 43. If the magnetic monopole exists, then which of the Maxwell's equation to be modified?.
- (a) $\oint \vec{E} \cdot d\vec{A} = \frac{Q_{enclosed}}{\varepsilon_0}$

- (b) $\oint \vec{E} \cdot d\vec{A} = 0$
- (c) $\oint \vec{E} \cdot d\vec{A} = \mu_0 I_{enclosed} + \mu_0 \varepsilon_0 \frac{d}{dt} \int \vec{E} \cdot d\vec{A}$
- (d) $\oint \vec{E} \cdot d\vec{A} = -\frac{d}{dt} \phi_B$



58. The principle use in	lightning cond	ductors is			
a) corona discharge	b)mutual ind	duction c)self-	-induction	d) electroma	agnetic induction
59. The work done in mo	oving 500μC o	charge betwee	n two point	s on equipote	ential surface is
a) zero	b) fini	te positive	c) finite r	negative	d) infinite
60. The direction of elec	tric field at a p	point on the ed	quatorial lin	e due to an e	lectric dipole is
a) along the equatorial li	- A A A	•	12/2/2019		ai_6099
b) along the equatorial li		-			
c) parallel to the axis of	~ (). ~		ne direction	of dipole mo	ment
d) parallel to the axis of	-			· ·	
61. The value of relative			12/2009 P		
	b) $9 \times 10^9 \text{ C}^2$		c) 1	d) 8.854 x 1	0^{12}
62. The electric field inte			,	,	
sheet of charge is				J 8	r www
a) proportional to r				b) proporti	onal to 1/r
c) proportional to 1 /r ²				d) independ	
63. A dielectric medium	is placed in a	n electric field	l Eo. The fie		
a) act in the direction of			. 20. 1110 110	b) acts oppo	
c)acts perpendicular to E				d) is zero	35110 10 120
64. The unit of the numb		lines of force	nassing thre	,	area is
a) no unit b) No		c) Nm ²		ough a given	d) Nm
65. The capacitance of a		C) THIII	C		d) Till
a) directly proportional t) Laiven to it			
b) inversely proportional	A (A (O) ") U" =	A (A (A			
c) directly proportional t			z proportion	al to the note	ential V
d) independent of both the		-		iai to the pott	cittai v
66. The brown ring at or				derance of	
a) 1%	b) 2%		c) 5%	of craffice of	d) 10%
67. In the case of insulat	,		,	ocietivity	u) 10/0
	creases	-		•	zaro
68. The unit of conductiv		c) remains co	mstant	u) becomes	Zeio
	. (2) (2) (2)	c) ohm – m		$d)mho - m^{-1}$	DE
		AND	ogg the ands	CWWW.	
69. A graph is drawn tak					_
and current through the				_	me gives.
	conductance	(c) resistivity	(u) co	onductivity	
70. Peltier effect is the c	onverse of		h) Domon o	ffaat	
a) Joule effect			b) Raman e		
c) Thomson effect			d) Seebeck	effect	
71. Fuse wire	1993321		1 \ 1 \ 1	. ලනුද්ලිලිපි	
a) is an alloy of lead and	copper		b) has low i		
c) has high resistance	c c c			melting point	
72. The unit of reduction	~!\\\\\\			1 -0	1818 601A
	o) tesla	c) amp	-		pere / degree
73. The torque experience	ced by a rectar	ngular current	loop placed	l perpendicul	ar to a uniform
magnetic field is		~ · · · ·			
a) maximum	b) zero	c) finite	e minimum	d) inf	inity
74. An ideal voltmeter h	as		50.	. paddae	DE
a) zero resistance b) finite resistan		esistance bet	ween zero and G		

79. Susceptibility is nearly temperature independent for a)diamagnetic material c)ferro magnetic material d)all of these 80. Identify the paramagnetic material in the following a)Iron b)Nickel c)Cobalt d) Platinum 81. Dimensional formula for magnetic flux is a) [MLT²A¹] b) [ML²T²A¹] c) [M²LT²A¹] d) [MLT²A¹] d) [MLT²A¹] s) [MLT²A¹] b) [ML²T²A¹] c) [M²LT²A¹] d) [MLT²A¹] g) Voltage lags current by $\pi/2$ b) voltage and current are in phase c) voltage leads current by $\pi/2$ b) voltage and current are in phase c) voltage leads current by $\pi/2$ b) woltage and current are in phase c) voltage leads current by $\pi/2$ b) woltage and current are in phase c) voltage leads current by $\pi/2$ b) woltage and current are in phase c) $\pi/2$ s. The unit of henry can also be written as a) $\pi/2$ times of peak current is $\pi/2$ times of peak cur	c) resistance greater than G but less than infin							
a) high conductivity c) large couple per unit twist d) small couple per unit twist 76. The value of gyro magnetic ratio is a) 8.8×10^{10} b) 8.8×10^{20} c) 8.8×10^{10} d) 8.8×10^{20} 77. Pole strength depends on a) nature of materials of the magnet, c) the state of magnetization. 40 all of these 78. If a magnet is cut into two equal halves perpendicular to the length, then pole strength a) remains same b) reduced by half c) increased to half d) none of these 79. Susceptibility is nearly temperature independent for a) diamagnetic material e) ferro magnetic material b) paramagnetic material b) paramagnetic material d) all of these 80. Identify the paramagnetic material in the following a) Iron b) Nickel c) Cobalt d) Platinum 81. Dimensional formula for magnetic flux is a) [MLT^2A^-1] b) [ML^2T^2A^+1] c) [M^2LT^2A^-1] d) [MLT^2A^-1] 82. In an a.e. circuit with an inductor a) Voltage lags current by $\pi/2$ b) woltage lags current as a) V Ass b) Wb^+A c) Ω S d) all of these 84. The generator rule is a) Fleming's left hand rule b) Maxwell's right hand corkscrew rule 85. Lenz's law is in accordance with the law of a) conservation of energy b) Conservation of energy b) Conservation of energy b) Inductor c) Resistor d) All of these 86. In an A.C. Circuit a) the average value of current is zero c) the average power dissipation is zero d) the rms current is $\sqrt{2}$ times of peak current 87. Which of the following devices does not allow direct current (D.C.) to pass through? a) Capacitor b) Inductor c) Resistor d) All of these 88. The resonant frequency of RLC circuit is γ_0 . The inductance is doubled. The capacitance is also doubled. Now the resonant frequency of the circuit is γ_0 . The inductance is doubled. The capacitance is also doubled. Now the resonant frequency of the circuit is γ_0 . The inductance is doubled. The capacitance of the circuit in cerease b) decrease c) remains the same d) becomes zero 90. The coefficient of self – induction of a solenoid is independent of a) the number of turns		nsion in a moving coil galva	anometer because it					
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b) continuous absorption spectrum

c) band absorption spectrum d) line emission spectrum

99. The wavelength range of microwaves in electro magnetic spectrum

b) 1×10^{-3} m to 3×10^{-1} m a) $8 \times 10^{-7} \,\text{m}$ to $5 \times 10^{-3} \,\text{m}$

c) 10^{-13} m to 10^{-8} m d) 1×10^{-14} m to 1×10^{-10} m

100. Which one the following has highest penetrating power

a) a) X - raysc) U - V rays d)microwaves