



DR ACADEMY

DO RIGHT FOR GENUINE EDUCATION

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SUBJECT
PHYSICS

KCET EXAMINATION - 2025

VERSION
B4

LONG TERM COACHING

1ST BATCH FOR NEET - 2026

5TH STARTS ON

JUNE - 2025

NEET TOPPERS OF DR ACADEMY

NEET - 2024 JIPMER - PUDUCHERRY  706 MARKS VENKATA SURYA TEJA GUDURI	NEET - 2021 JIPMER - PUDUCHERRY  695 MARKS LAKSHMAN REDDY B V	NEET - 2024 BMC - BANGALORE  690 MARKS ABHISHEK A BADAGOUDAR	NEET - 2024 BMC - BANGALORE  686 MARKS RAHUL KADLAGOND	NEET - 2024 BIMC - BELAGAVI  686 MARKS AMEERMUSADDIQ SANADI	NEET - 2024 KIMS - HUBLI  686 MARKS ADITYA SAKRI
NEET - 2024 BMC - BANGALORE  681 MARKS UTTAM SUBHASH HUKKERI	NEET - 2024 SABVIMS - BENGALURU  681 MARKS MOHAMMED NAASIRUDEEN D	NEET - 2024 MMCRI - MYSORE  680 MARKS SUHAS I KORABU	NEET - 2023 BMC, BANGALORE  680 MARKS SHRAVAN REDDY C N	NEET - 2023 JIPMER PUDUCHERRY  677 MARKS KAMALIKA CHALLA	NEET - 2022 BIMC, BELAGAVI  677 MARKS SACHI KALLOLI
NEET - 2023 AIIMS, NAGPUR  676 MARKS MOHAMMED SULEMAN	NEET - 2022 AIIMS, BHOPAL  675 MARKS CHATHUSH GOWDA D S	NEET - 2022 BMC, BANGALORE  672 MARKS CHANDANA D	NEET - 2022 BMC, BANGALORE  672 MARKS SOWRAV B	NEET - 2024 ESIMC - BANGALORE  671 MARKS ZOYA FIRDOUSE	NEET - 2024 MMCRI - MYSORE  671 MARKS GIRISH J PARAMAGOND
NEET - 2024 KIMS - HUBLI  670 MARKS SNEHA SUBHAS PATIL	NEET - 2024 KIMS - HUBLI  666 MARKS RAJIV BHEEMASHANKAR CHOUDHARI	NEET - 2024 KIMS - HUBLI  665 MARKS C SATHYAM	NEET - 2021 BMC, BANGALORE  665 MARKS RASHMI PATIL	NEET - 2020 BMC, BANGALORE  665 MARKS JAYANTH L S	NEET - 2024 GIMS - GULBARGA  663 MARKS MOHAMMED ZEESHAN
NEET - 2024 MIMS - MANDYA  662 MARKS POOJA U	NEET - 2024 MMCRI - MYSORE  662 MARKS SAMPAT GOPAL GOKAK	NEET - 2022 BMC, BANGALORE  662 MARKS SIDDHARTH A S	NEET - 2024 KIMS - HUBLI  661 MARKS DIVYA M YALIGAR	NEET - 2023 JIPMER PUDUCHERRY  661 MARKS SHASHANK SURAPOOR	NEET - 2024 BIMC - BELAGAVI  660 MARKS ANMOL R KOTNAL
NEET - 2024 KIMS - BANGALORE  660 MARKS ADHITHYA SUDARSAN GOKHALE	NEET - 2024 MMCRI - MYSORE  660 MARKS SHRIDHAR BIRADAR	NEET - 2024 SABVIMS - BENGALURU  660 MARKS POOJA N	NEET - 2024 SABVIMS - BENGALURU  660 MARKS TARUN N	NEET - 2021 KIMS, HUBLI  660 MARKS NACHIKET KEMPANNA	NEET - 2024 KIMS - HUBLI  657 MARKS SINDHU VADAVADAGI

DR ACADEMY IS THE PERFECT DESTINATION FOR MEDICAL ASPIRANTS

THE JOURNEY...
NEET MEDICAL
SELECTIONS

123
2018

210
2019

182
2020

279
2021

445
2022

452
2023

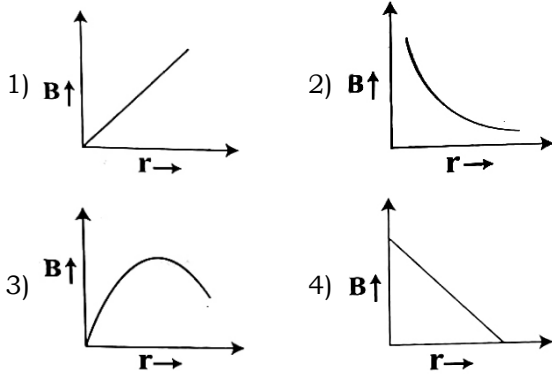
569
2024

TOTAL 2260 MEDICAL SELECTIONS

in seven consecutive years. Our students joined in many reputed medical colleges across Karnataka.

NEET - 2024 MIMS - MANDYA  657 MARKS S SUHAS	NEET - 2024 SABVIMS - BENGALURU  657 MARKS SHREEHARINATH A B	NEET - 2024 GMC - SAMBAHJINAGAR  656 MARKS PRATEEK SUBHASH TOPINATTI	NEET - 2024 KIMS - HUBLI  656 MARKS YASEEN MULLA	NEET - 2024 MIMS - MANDYA  656 MARKS KUSUMA M	NEET - 2024 SIMS - SHIMOGA  656 MARKS NAGAVARDHAN MR
NEET - 2024 VIMS - BELLARY  656 MARKS N POOJITHA SHREE	NEET - 2023 BMC, BANGALORE  656 MARKS BHANU PRAKASH D M	NEET - 2021 AIIMS, HYDERABAD  656 MARKS VARUN KAJAGAR	NEET - 2024 AIIMS, HYDERABAD.  655 MARKS AMODH NAIK	NEET - 2024 BIMC - BELAGAVI  655 MARKS SAKSHI CHANDRASHEKHAR YALARADDI	NEET - 2024 HIMS - HASSAN  655 MARKS NITYA REDDY C
NEET - 2024 SIMS - SHIMOGA  655 MARKS MAHIPAL SINGH	NEET - 2024 VIMS - BELLARY  654 MARKS NIVEDITA	NEET - 2023 BMC, BANGALORE  654 MARKS ABHISHEK V G	NEET - 2021 BMC, BANGALORE  654 MARKS KUMARESH HIREMATH	NEET - 2024 BIMC - BELAGAVI  653 MARKS SIDDANAGOUDA S PATIL	NEET - 2024 KIMS - HUBLI  653 MARKS VINDHYA B G
NEET - 2024 BIMC - BELAGAVI  652 MARKS BHOMIKA BAYAKOL	NEET - 2024 VIMS - BELLARY  652 MARKS CHIRANTHAN J	NEET - 2024 VIMS - BELLARY  652 MARKS B K V KARTHIKEYA	NEET - 2024 KIMS - HUBLI  651 MARKS SHASHANK VALIMARAD	NEET - 2024 KIMS - HUBLI  650 MARKS PARASHURAM KYADIGGERI	NEET - 2024 MIMS - MANDYA  650 MARKS PREETHAM K M
NEET-2022 BMC, BANGALORE  650 MARKS SANKALP	NEET-2022 KIMS, HUBLI  650 MARKS ABHIJIT RAMESH MIRJI	NEET - 2024 VIMS - BELLARY  649 MARKS KEERTI VEERANNA KORI	NEET - 2024 VIMS - BELLARY  648 MARKS SONIYA S	NEET - 2024 BMC - BANGALORE  647 MARKS NAVYA	NEET - 2024 BIMC - BELAGAVI  647 MARKS SIDDANAGOUDA PATIL
NEET - 2024 BIMC - BELAGAVI  647 MARKS OMKAR N MUDENUR	NEET-2024 MIMS - MANDYA  647 MARKS VIJAY KUMAR B DEYANNAVAR	NEET-2022 BMC, BANGALORE  647 MARKS SUPRIT SAMJAY K	NEET-2021 BMC, BANGALORE  647 MARKS PRAMOD I HONAGOUD	NEET-2020 BMC, BANGALORE  647 MARKS CHANDAN S	NEET-2024 CIMS - CHAMARAJANAGAR  646 MARKS BUTHESH G
NEET-2024 GIMS - GADAG  646 MARKS BASAVAKIRAN DHAREPPANAVAR	NEET-2024 VIMS - BELLARY  646 MARKS VENKATESH REDDY	NEET-2022 BMC, BANGALORE  646 MARKS SHIVAANI S GOUNDER	NEET-2022 KIMS, HUBLI  646 MARKS ROHAN R KONGI	NEET-2024 BIMC - BELAGAVI  645 MARKS CHANDANA B	NEET-2024 GIMS - GADAG  645 MARKS SHASHANK CHANDRA SHEKHAR KANDAGAL
NEET-2024 MIMS - MANDYA  645 MARKS PRASHANTGOUDA MENASAGI	NEET-2024 PSGIMS - COIMBATORE  645 MARKS GOURAV S	NEET-2024 VIMS - BELLARY  645 MARKS MEHANTH SAI REDDY G R	NEET-2023 BMC, BANGALORE  645 MARKS NABIYA MUSHTAQ AHMED M	NEET-2023 GMC, SECUNDERABAD  645 MARKS VIJESH KANNA K	NEET-2022 BMC, BANGALORE  645 MARKS SAATHVIK S G
NEET-2021 MMCRI, MYSORE  645 MARKS AJEETH MALLAPPA T	NEET-2024 HIMS - HASSAN  644 MARKS DEEPTHI S M	NEET-2024 MIMS - MANDYA  644 MARKS SANJANA R	NEET-2023 MMCRI, MYSORE  643 MARKS VISHAL S PATIL	NEET-2022 BMC, BANGALORE  643 MARKS VAISHNAVI REDDY	NEET-2022 SMC, CHENNAI  643 MARKS S NAYANA

1. Which of the following graphs represents the variation of magnetic field B with perpendicular distance ' r ' from an infinitely long, straight conductor carrying current?



Ans. 2

Sol. $B = \frac{\mu_0 i}{2\pi r}$
 $\Rightarrow B \propto \frac{1}{r}$

2. If we consider an electron and a photon of same de-Broglie wavelength, then they will have same

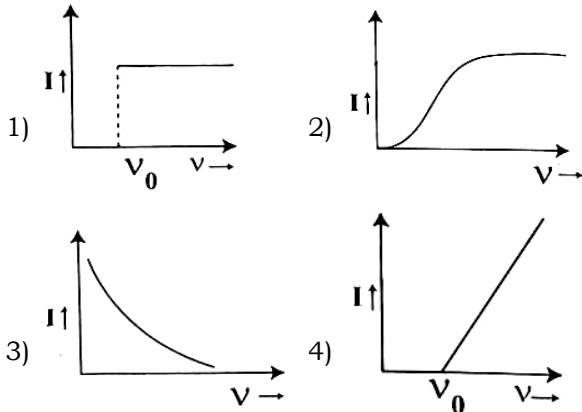
- 1) Angular momentum 2) Energy
3) Velocity 4) Momentum

Ans. 4

Sol. $\lambda = \frac{h}{p}$

λ is same for both hence p is same for both

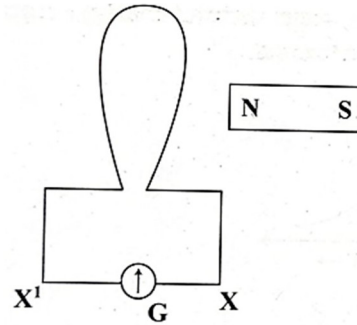
3. The anode voltage of a photocell is kept fixed. The frequency of the light falling on the cathode is gradually increased. Then the correct graph which shows the variation of photo current I with the frequency ν of incident light is



Ans. 1

Sol. Photo current is independent of frequency of incident radiation.

4. When a bar magnet is pushed towards the coil, along its axis, as shown in the figure, the galvanometer pointer deflects towards X. When this magnet is pulled away from the coil, the galvanometer pointer



- 1) deflects towards X^1 2) does not deflect
3) oscillates 4) deflects towards X

Ans. 1

Sol. According to Lenz's law

5. A square loop of side $2m$ lies in the Y-Z plane in a region having a magnetic field $\vec{B} = (5\hat{i} + 3\hat{j} - 4\hat{k})T$. The magnitude of magnetic flux through the square loop is

- 1) 20 Wb 2) 12 Wb 3) 16 Wb 4) 10 Wb

Ans. 1

Sol. $\phi = B_x A = 5 \times 4 = 20 \text{ Wb}$

Area, $A = l \times b = 2 \times 2 = 4 \text{ m}^2$

6. In domestic electric mains supply, the voltage and the current are

- 1) AC voltage and DC current
2) DC voltage and DC current
3) DC voltage and AC current
4) AC voltage and AC current

Ans. 4

Sol. AC voltage and AC current

7. A sinusoidal voltage produced by an AC generator at any instant t is given by an equation $V = 311 \sin 314t$. The rms value of voltage and frequency are respectively.

- 1) 200 V, 50 Hz 2) 220 V, 100 Hz
3) 220 V, 50 Hz 4) 200 V, 100 Hz

Ans. 3

Sol. $V_{\text{rms}} = \frac{V_0}{\sqrt{2}} = \frac{311}{1.414} = 220$

$\omega = 314$

$2\pi n = 314$

$n = \frac{314}{2 \times 3.14} = 50 \text{ Hz}$

8. A series LCR circuit containing an AC source of 100 V has an inductor and a capacitor of reactance 24Ω and 16Ω respectively. If a resistance of 6Ω is connected in series, then the potential difference across the series combination of inductor and capacitor only is
1) 80 V 2) 400 V 3) 8 V 4) 40 V

Ans. 1

Sol. $V = 100\text{ V}$

$$X_L = 24\Omega$$

$$X_C = 16\Omega$$

$$R = 6\Omega$$

$$I = \frac{V}{Z} = \frac{100}{\sqrt{R^2 + (X_L - X_C)^2}}$$

$$I = \frac{100}{\sqrt{6^2 + 8^2}} = \frac{100}{10} = 10\text{ A}$$

$$V_L = iX_L = 10 \times 24 = 240\text{ V}$$

$$V_C = iX_C = 10 \times 16 = 160\text{ V}$$

Voltage across L and C is

$$V^1 = 240 - 160 = 80\text{ volts}$$

9. Match the following types of waves with their wavelength ranges

Waves		Wavelength ranges	
i.	Microwave	a.	700 nm to 400 nm
ii.	Visible light	b.	1 nm to 10^{-3} nm
iii.	Ultraviolet	c.	0.1 m to 1 mm
iv.	X-rays	d.	400 nm to 1 nm

1) i - c, ii - a, iii - d, iv - b

2) i - d, ii - b, iii - c, iv - a

3) i - b, ii - c, iii - a, iv - d

4) i - a, ii - d, iii - b, iv - c

Ans. 1

Sol. Conceptual

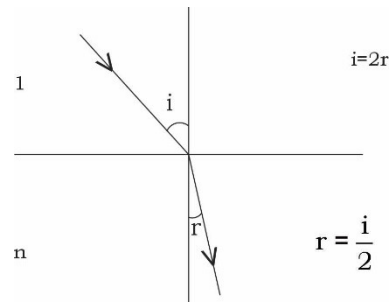
10. A ray of light passes from vacuum into a medium of refractive index n . If the angle of incidence is twice the angle of refraction, then the angle of incidence in terms of refractive index is

1) $\sin^{-1}\left(\frac{n}{2}\right)$ 2) $2\cos^{-1}\left(\frac{n}{2}\right)$

3) $2\sin^{-1}\left(\frac{n}{2}\right)$ 4) $\cos^{-1}\left(\frac{n}{2}\right)$

Ans. 2

Sol.



$$1 \sin i = n \sin \frac{i}{2}$$

$$2 \sin \frac{i}{2} \cos \frac{i}{2} = n \sin \frac{i}{2}$$

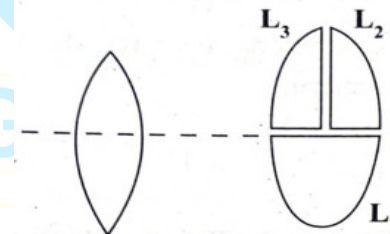
$$\cos \frac{i}{2} = \frac{n}{2}$$

$$\frac{i}{2} = \cos^{-1}\left(\frac{n}{2}\right)$$

$$i = 2 \cos^{-1}\left(\frac{n}{2}\right)$$

11. A convex lens has power P . It is cut into two halves along its principal axis. Further one piece (out of two halves) is cut into two halves perpendicular to the principal axis as shown in figure.

Choose the incorrect option for the reported lens pieces



1) Power of L_2 is $\frac{P}{2}$ 2) Power of L_3 is $\frac{P}{2}$

3) Power of L_1 is P 4) Power of L_1 is $\frac{P}{2}$

Ans. 4

Sol. Power of L_1 is $\frac{1}{f} = P$

$$\text{Power of } L_2 \text{ and } L_3 \text{ is } \frac{P}{2}$$

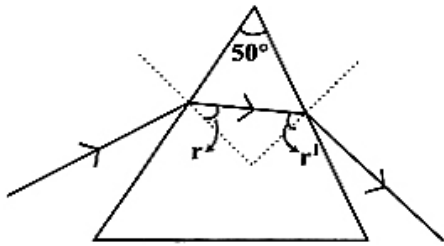
12. The image formed by an objective lens a compound microscope is

- 1) Real and diminished
2) Real and enlarged
3) Virtual and enlarged
4) Virtual and diminished

Ans. 2

Sol. Real, enlarged image

13. If r and r' denote the angles inside the prism having angle of prism 50° considering that during interval of time from $t=0$ to $t=t$, r varies with time as $r=10^\circ+t^2$. During this time r' will vary with time as



- 1) $40^\circ+t^2$ 2) $50^\circ-t^2$ 3) $50^\circ+t^2$ 4) $40^\circ-t^2$

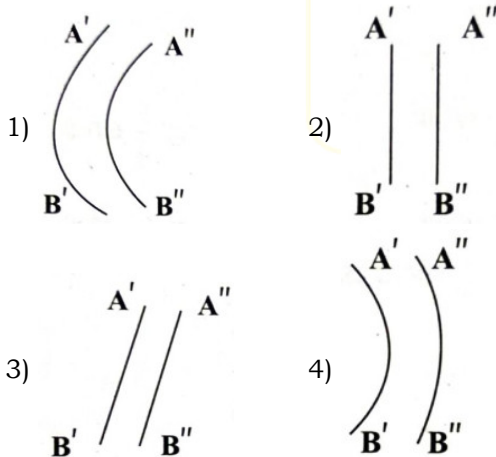
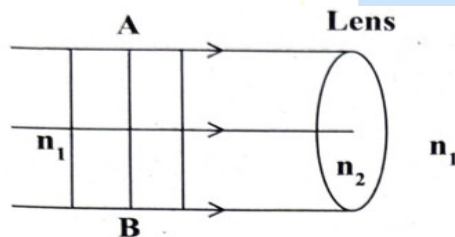
Ans. 4

Sol. $r' = A - (10 + t^2)$

$$r' = 50 - 10 - t^2$$

$$r' = 40 - t^2$$

14. If AB is incident plane wave front then refracted wave front is ($n_2 > n_1$)



Ans. 1

Sol. It converts as spherical wave front and converges towards focus

15. The total energy carried by the light wave when it travels from a rarer to a non-reflecting and non-absorbing medium
- 1) remains same
 - 2) increases
 - 3) either increases or decreases depending upon angle of incidence
 - 4) decreases

Ans. 1

Sol. Total energy remains same

16. If the radius of first Bohr orbit is r , then the radius of the second Bohr orbit will be
- 1) $8r$
 - 2) $4r$
 - 3) $2\sqrt{2}r$
 - 4) $2r$

Ans. 2

Sol. $r_n = r \frac{n^2}{Z} = r \frac{2^2}{1} = 4r$

17. Match the following types of nuclei with examples shown

Column-I		Column- II	
(A)	Isotopes	(i)	${}_3\text{Li}^7, {}_4\text{Be}^7$
(B)	Isobars	(ii)	${}_8\text{O}^{18}, {}_9\text{F}^{19}$
(C)	Isotones	(iii)	${}_1\text{H}^1, {}_1\text{H}^2$

- 1) A - ii, B - iii, C - i 2) A - i, B - iii, C - ii
3) A - iii, B - ii, C - i 4) A - iii, B - i, C - ii

Ans. 4

Sol. Isotopes (Z = same, same element) = ${}_1\text{H}^1, {}_1\text{H}^2$

Isobars (A =same, different elements)

$${}_3\text{Li}^7, {}_4\text{Be}^7$$

Isotones ($n=A-Z$ =same, different elements)

$${}_8\text{O}^{18}, {}_9\text{F}^{19}$$

18. Which of the following statements is incorrect with reference to 'Nuclear force'?
- 1) Nuclear force becomes attractive for nucleon distances larger than 0.8 fm
 - 2) Nuclear force becomes repulsive for nucleon distances less than 0.8 fm
 - 3) Nuclear force is always attractive
 - 4) Potential energy is minimum, if the separation between the nucleons is 0.8 fm

Ans. 3

Sol. Conceptual

19. The range of electrical conductivity (σ) and resistivity (ρ) for metals, among the following, is

- 1) $\rho \rightarrow 10^{-5} - 10^6 \Omega \text{ m}$, $\sigma \rightarrow 10^{-5} - 10^{-6} \text{ Sm}^{-1}$
- 2) $\rho \rightarrow 10^{11} - 10^{19} \Omega \text{ m}$, $\sigma \rightarrow 10^{-11} - 10^{-19} \text{ Sm}^{-1}$
- 3) $\rho \rightarrow 10^2 - 10^8 \Omega \text{ m}$, $\sigma \rightarrow 10^{-2} - 10^{-8} \text{ Sm}^{-1}$
- 4) $\rho \rightarrow 10^{-2} - 10^{-8} \Omega \text{ m}$, $\sigma \rightarrow 10^2 - 10^8 \text{ Sm}^{-1}$

Ans. 4

Sol. For Metals or conductors,
Conductivity is high $\sigma = 10^2 \text{ to } 10^8 \text{ Sm}^{-1}$
Resistivity is low $\rho = 10^{-2} \text{ to } 10^{-8} \Omega \text{ m}$

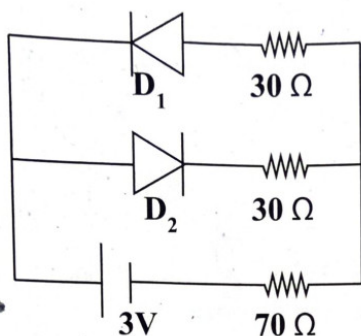
20. Which of the following statements is correct for an n-type semiconductor?

- 1) The donor energy level lies closely above the top of the valence band
- 2) The donor energy level lies at the half way mark of forbidden energy gap
- 3) The donor energy level does not exist
- 4) The donor energy level lies just below the bottom of the conduction band

Ans. 4

Sol. In n - type semiconductor, donor energy level lies just below the bottom of conduction band

21. The circuit shown in the figure contains two ideal diodes D_1 and D_2 . If a cell of emf 3V and negligible internal resistance is connected as shown, then the current through 70Ω resistance (in ampere) is



- 1) 0.01
- 2) 0.02
- 3) 0.03
- 4) 0

Ans. 3

Sol. $I = \frac{V}{R_{\text{eff}}} = \frac{3}{70 + 30} = 0.03 \text{ A}$

22. In determining the refractive index of a glass slab using a travelling microscope, the following readings are tabulated.

- (A) Reading of travelling microscope for ink mark = 5.123 cm
- (B) Reading of travelling microscope for ink mark through glass slab = 6.123 cm
- (C) Reading of travelling microscope for chalk dust on glass slab = 8.123 cm

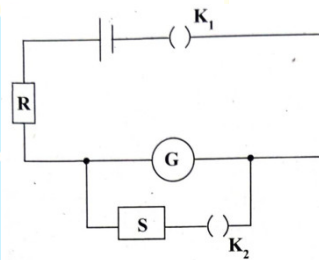
From the data, the refractive index of a glass slab is

- 1) 1.500
- 2) 1.601
- 3) 1.399
- 4) 1.390

Ans. 1

Sol. $n = \frac{R_3 - R_1}{R_3 - R_2} = \frac{8.123 - 5.123}{8.123 - 6.123} = \frac{3}{2} = 1.5$

23. In an experiment to determine the figure of merit of a galvanometer by half deflection method, a student constructed the following circuit.



He unplugged a resistance of 5200Ω in R.

When K_1 is closed and K_2 is open, the deflection observed in the galvanometer is 26 div. When K_2 is also closed and a resistance of 90Ω is removed in S, the deflection becomes 13 div. The resistance of galvanometer is nearly

- 1) 45.0Ω
- 2) 103.0Ω
- 3) 91.6Ω
- 4) 116.0Ω

Ans. 3

Sol. $G = \frac{RS}{R - S} = \frac{5200 \times 90}{5200 - 90} = 91.5\Omega$

24. While determining the coefficient of viscosity of the given liquid, a spherical steel ball sinks by a distance $h = 0.9$ m. The radius of the ball is $r = \sqrt{3} \times 10^{-3}$ m. The time taken by the ball to sink in three trials are tabulated as follows.

Trial No.	Time taken by the ball to fall by h (in second)
1.	2.75
2.	2.65
3.	2.70

The difference between the densities of the steel ball and the liquid is 7000 kg m^{-3} . If $g = 10.0 \text{ ms}^{-2}$, then the coefficient of viscosity of the given liquid at room temperature is
 1) 0.14 Pa.s 2) $0.14 \times 10^{-3} \text{ Pa.s}$
 3) 14 Pa.s 4) 0.28 Pa.s

Ans. 1

Sol. $\eta = \frac{2}{9} \frac{r^2 g (\rho - \sigma)}{V}$
 $\eta = \frac{2}{9} \times \frac{3 \times 10^{-6} \times 10 \times 7000}{1/3}$
 $\eta = 0.14$

25. Which of the following expressions can be deduced on the basis of dimensional analysis? (All symbols have their usual meanings)
 1) $x = A \cos \omega t$ 2) $N = N_0 e^{-\lambda t}$
 3) $F = 6\pi \eta r v$ 4) $s = ut + \frac{1}{2} at^2$

Ans. 3

Sol. Dimensional analysis is not applicable for trigonometric and exponential functions

26. Two stones begin to fall from rest from the same height, with the second stone starting to fall ' Δt ' seconds after the first falls from rest. The distance of separation between the two stones becomes ' H ', ' t_0 ' seconds after the first stone starts its motion. Then t_0 is equal to

- 1) $\frac{H}{\Delta t} + \frac{\Delta t}{2g}$ 2) $\frac{H}{g\Delta t} - \frac{\Delta t}{2}$
 3) $\frac{H}{g\Delta t} + \frac{\Delta t}{2}$ 4) $\frac{H}{g\Delta t}$

Ans. 3

Sol. Case (i) $x_1 = \frac{1}{2} g t_0^2$

Case (ii) $x_2 = \frac{1}{2} g (t_0 - \Delta t)^2$

Given $x_1 - x_2 = H = \frac{1}{2} g t_0^2 - \frac{1}{2} g (t_0 - \Delta t)^2$
 $\Rightarrow t_0 = \frac{H}{g\Delta t} + \frac{\Delta t}{2}$

27. In the projectile motion of a particle on a level ground, which of the following remains constant with reference to time and position?
 1) Average velocity between any two points on the path
 2) Horizontal component of velocity
 3) Angle between the instantaneous velocity with the horizontal
 4) Vertical component of the velocity of the projectile

Ans. 2

Sol. Horizontal component of velocity remains constant

28. A particle is in uniform circular motion. The equation of its trajectory is given by $(x - 2)^2 + y^2 = 25$, where x and y are in meter. The speed of the particle is 2 ms^{-1} . When the particle attains the lowest ' y ' co-ordinate, the acceleration of the particle is (in ms^{-2})
 1) $0.4 \hat{j}$ 2) $0.8 \hat{i}$ 3) $0.8 \hat{j}$ 4) $0.4 \hat{i}$

Ans. 3

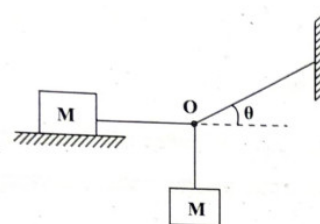
Sol. $(x - 2)^2 + y^2 = 25$

Compare above equation with equation of circle $x^2 + y^2 = r^2$ then $r = 5$

$\therefore a = \frac{v^2}{r} = \frac{2^2}{5} = 0.8$

When particle attains lowest ' y ' co-ordinate, acceleration particle is along x axis

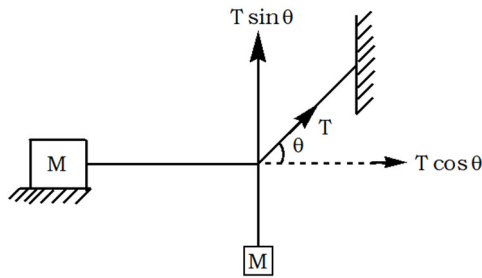
29. A wooden block of mass M lies on a rough floor. Another wooden block of the same mass is hanging from the point O through strings as shown in the figure. To achieve equilibrium, the coefficient of static friction between the block on the floor with the floor itself is



- 1) $\mu = \cot \theta$ 2) $\mu = \sin \theta$
 3) $\mu = \tan \theta$ 4) $\mu = \cos \theta$

Ans. 1

Sol.



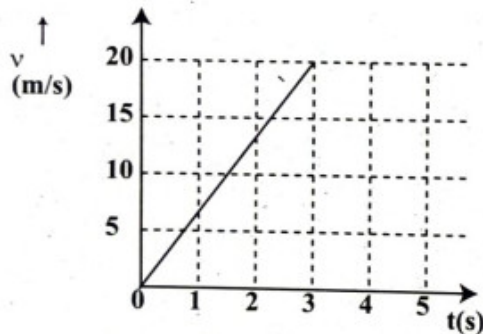
$$T \sin \theta = Mg$$

$$T \cos \theta = \mu Mg$$

$$\frac{T \cos \theta}{T \sin \theta} = \frac{\mu Mg}{Mg} = \mu$$

$$\cot \theta = \mu$$

30. A block of certain mass is placed on a rough floor. The coefficients of static and kinetic friction between the block and the floor are 0.4 and 0.25 respectively. A constant horizontal force $F = 20\text{N}$ acts on it so that the velocity of the block varies with time according to the following graph. The mass of the block is nearly (Take $g \approx 10 \text{ ms}^{-2}$)



- 1) 4.4 kg 2) 1.2 kg 3) 1.0 kg 4) 2.2 kg

Ans. 4

Sol. $\mu_s = 0.4$

$$\mu_k = 0.25$$

$$\text{Acceleration} = \frac{Y_2 - Y_1}{X_2 - X_1} = \frac{20}{3}$$

$$F = ma + \mu mg$$

$$m = \frac{F}{\mu g + a} = 2.18 \approx 2.2 \text{ kg}$$

31. A body of mass 0.25 kg travels along a straight line from $x = 0$ to $x = 2 \text{ m}$ with a speed $v = kx^{3/2}$ where $k = 2 \text{ SI units}$. The work done by the net force during this displacement is
1) 8 J 2) 16 J 3) 32 J 4) 4 J

Ans. 4

$$\text{Sol. } V = kx^{3/2}$$

$$W = \Delta K.E = \frac{1}{2} MV^2$$

$$W = \frac{1}{2} M \cdot k^2 x^3$$

$$= \frac{1}{2} \times 0.25 \times 4 [2^3]$$

$$= 0.5 \times 8 = 4 \text{ J}$$

32. During an elastic collision between two bodies, which of the following statements are correct?
I. The initial kinetic energy is equal to the final kinetic energy of the system.
II. The linear momentum is conserved.
III. The kinetic energy during Δt (the collision time) is not conserved.
1) II and III only 2) I and III only
3) I, II and III 4) I and II only

Ans. 3

Sol. Conceptual

33. Three particles of mass 1 kg, 2 kg and 3 kg are placed at the vertices A, B and C respectively of an equilateral triangle ABC of side 1 m. The centre of mass of the system from vertex A (located at origin) is

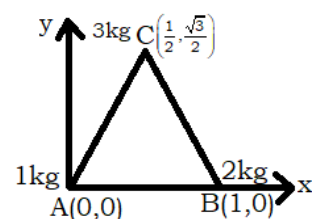
$$1) \left(\frac{7}{12}, \frac{3\sqrt{3}}{12} \right) \quad 2) \left(\frac{9}{12}, \frac{3\sqrt{3}}{12} \right)$$

$$3) \left(\frac{7}{12}, \frac{6+3\sqrt{3}}{12} \right) \quad 4) (0,0)$$

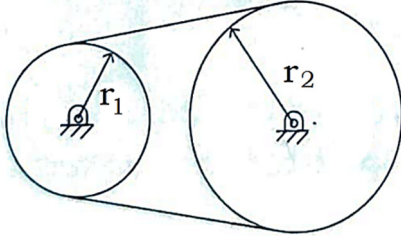
Ans. 1

$$\text{Sol. } x_{\text{cm}} = \frac{m_1 x_1 + m_2 x_2 + m_3 x_3}{m_1 + m_2 + m_3} = \frac{7}{12} m$$

$$y_{\text{cm}} = \frac{m_1 y_1 + m_2 y_2 + m_3 y_3}{m_1 + m_2 + m_3} = \frac{3\sqrt{3}}{12} m$$



34. Two fly wheels are connected by a non-slipping belt as shown in the figure.
 $I_1 = 4 \text{ kg m}^2, r_1 = 20 \text{ cm}$, $I_2 = 20 \text{ kg m}^2$ and $r_2 = 30 \text{ cm}$. A torque of 10 Nm is applied on the smaller wheel. Then match the entries of column I with appropriate entries of column II.



I	Quantities	II	Their numerical values (in SI units)
(a)	Angular acceleration of smaller wheel	(i)	$\frac{5}{3}$
(b)	Torque on the larger wheel	(ii)	$\frac{100}{3}$
(c)	Angular acceleration of larger wheel	(iii)	$\frac{5}{2}$

- 1) a-ii, b-iii, c-i 2) a-iii, b-i, c-ii
 3) a-ii, b-i, c-iii 4) a-iii, b-ii, c-i

Ans. 4

Sol. $r_1 \omega_1 = r_2 \omega_2$
 $r_1 \alpha_1 = r_2 \alpha_2$
 $10 = 4 \alpha_1$
 $\alpha_1 = \frac{5}{2}$
 $\alpha_2 = \frac{5}{3} \text{ radian/sec}^2$
 $\tau_2 = 20 \times \frac{5}{3} = \frac{100}{3} \text{ N-m}$

35. If r_p, v_p, L_p and r_a, v_a, L_a are radii, velocities and angular momenta of a planet at perihelion and aphelion of its elliptical orbit around the Sun respectively, then

- 1) $r_p > r_a, v_p > v_a, L_a > L_p$
 2) $r_p < r_a, v_p > v_a, L_a = L_p$
 3) $r_p > r_a, v_p < v_a, L_a = L_p$
 4) $r_p < r_a, v_p < v_a, L_a < L_p$

Ans. 2

Sol. Conceptual

36. The total energy of a satellite in a circular orbit at a distance $(R+h)$ from the center of the Earth varies as
 [R is the radius of the Earth and h is the height of the orbit from Earth's surface]

- 1) $-\frac{1}{(R+h)}$ 2) $\frac{1}{(R+h)^2}$
 3) $-\frac{1}{(R+h)^2}$ 4) $\frac{1}{(R+h)}$

Ans. 1

Sol. $E = -\frac{GMm}{2(R+h)}$

37. Two wires A and B are made of same material. Their diameters are in the ratio of 1:2 and lengths are in the ratio of 1:3. If they are stretched by the same force, then increase in their lengths will be in the ratio of

- 1) 3:4 2) 2:3 3) 3:2 4) 4:3

Ans. 4

Sol. $Y = \frac{F\ell}{Ae}$

$e \propto \frac{\ell}{A} \propto \frac{\ell}{D^2} \Rightarrow \frac{e_1}{e_2} = \frac{\ell_1 D_2^2}{\ell_2 D_1^2} = \frac{1}{3} \times \frac{4}{1} = 4:3$

38. A horizontal pipe carries water in a streamlined flow. At a point along the pipe, where the cross-sectional area is 10 cm^2 , the velocity of water is 1 ms^{-1} and the pressure is 2000 Pa. What is the pressure of water at another point where the cross-sectional area is 5 cm^2 ?

[Density of water = 1000 kgm^{-3}]

- 1) 300 Pa 2) 400 Pa 3) 500 Pa 4) 200 Pa

Ans. 3

Sol. $A_1 V_1 = A_2 V_2$

$10 \times 1 = 5 \times V_2$

$V_2 = 2 \text{ m/s}$

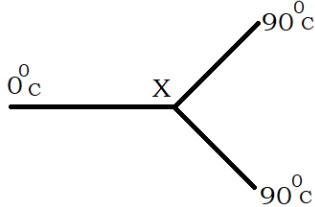
$P_1 - P_2 = \frac{1}{2} \rho (V_2^2 - V_1^2)$

$P_2 = P_1 - \frac{1}{2} \rho (V_2^2 - V_1^2)$

$P_2 = 2000 - \frac{1}{2} \times 1000 \times (2^2 - 1^2)$

$P_2 = 2000 - 1500 = 500 \text{ Pa}$

39. Three metal rods of the same material and identical in all respects are joined as shown in the figure. The temperatures at the ends of these rods are maintained as indicated. Assuming no heat energy loss occurs through the curved surfaces of the rods, the temperature at the junction x is



- 1) 60°C 2) 30°C 3) 20°C 4) 45°C

Ans. 1

Sol. $\theta - 0 + \theta - 90 + \theta - 90 = 0$
 $3\theta - 180 = 0$
 $\theta = 60^\circ\text{C}$

40. A gas is taken from state A to state B along two different paths 1 and 2. The heat absorbed and work done by the system along these two paths are Q_1 and Q_2 and W_1 and W_2 respectively. Then

- 1) $W_1 = W_2$ 2) $Q_1 - W_1 = Q_2 - W_2$
 3) $Q_1 + W_1 = Q_2 + W_2$ 4) $Q_1 = Q_2$

Ans. 2

Sol. ΔU is independent of the path
 $\Delta U_1 = \Delta U_2$
 $Q_1 - w_1 = Q_2 - w_2$

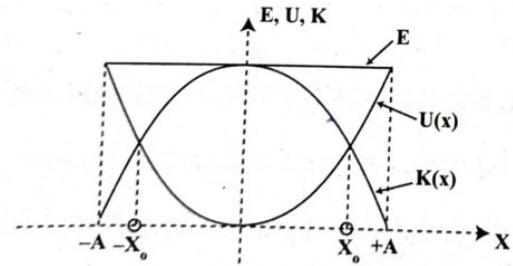
41. At 27°C temperature, the mean kinetic energy of the atoms of an ideal gas is E_1 . If the temperature is increased to 327°C , then the mean kinetic energy of the atoms will be

- 1) $\frac{E_1}{\sqrt{2}}$ 2) $\sqrt{2}E_1$ 3) $2E_1$ 4) $\frac{E_1}{2}$

Ans. 3

Sol. $T_1 = 27 + 273 = 300\text{K}$
 $E_1 = E$
 $T_2 = 327 + 273 = 600\text{K}$
 $E_2 = ?$
 $\text{KE} \propto T$
 $\Rightarrow \frac{E_1}{E_2} = \frac{T_1}{T_2} = \frac{300}{600} = \frac{1}{2}$
 $\therefore E_2 = 2E_1$

42. The variations of kinetic energy $K(x)$, potential energy $U(x)$ and total energy as a function of displacement of a particle in SHM is as shown in the figure. The value of $|x_0|$ is



- 1) $2A$ 2) $\frac{A}{\sqrt{2}}$ 3) $\sqrt{2}A$ 4) $\frac{A}{2}$

Ans. 2

Sol. $\text{PE} = \text{KE}$
 $\frac{1}{2}m\omega^2 x^2 = \frac{1}{2}m\omega^2 (A^2 - x^2)$
 $2x^2 = A^2$
 $x = \frac{A}{\sqrt{2}}$

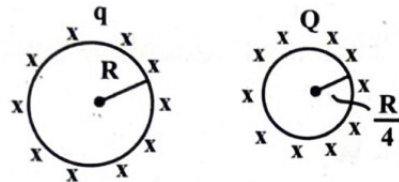
43. The angle between the particle velocity and wave velocity in a transverse wave is [except when the particle passes through the mean position]

- 1) $\frac{\pi}{4}$ radian 2) $\frac{\pi}{2}$ radian
 3) π radian 4) Zero radian

Ans. 2

Sol. From definition of transverse wave

44. A metallic sphere of radius R carrying a charge q is kept at certain distance from another metallic sphere of radius $R/4$ carrying a charge Q . What is the electric flux at any point inside the metallic sphere of radius R due to the sphere of radius $R/4$?

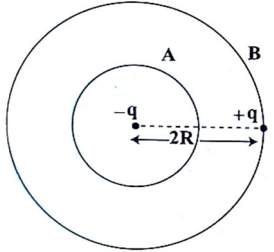


- 1) $\frac{Q}{\epsilon_0} - \frac{q}{\epsilon_0}$ 2) Zero 3) $\frac{q}{\epsilon_0} - \frac{Q}{\epsilon_0}$ 4) $\frac{Q}{\epsilon_0}$

Ans. 2

Sol. From Gauss law

45. You are given a dipole of charge $+q$ and $-q$ separated by a distance $2R$. A sphere 'A' of radius ' R ' passes through the centre of the dipole as shown below and another sphere 'B' of radius ' $2R$ ' passes through the charge $+q$. Then the electric flux through the sphere A is



- 1) q/ϵ_0 2) Zero 3) $2q/\epsilon_0$ 4) $-q/\epsilon_0$

Ans. 4

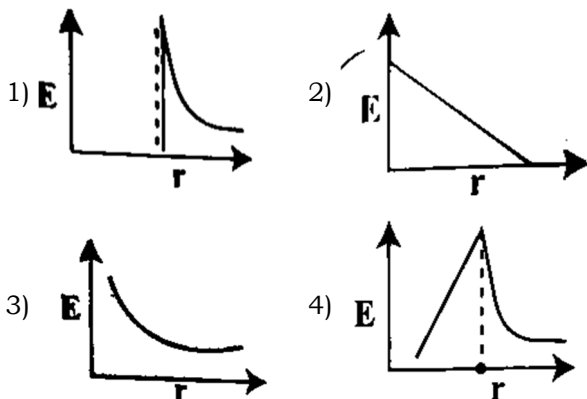
Sol. $\phi = \frac{-q}{\epsilon_0}$ (flux is inwards)

46. A potential at a point A is -3 V and that at another point B is 5 V. What is the work done in carrying a charges of 5 m C from B to A?
1) -0.04 J 2) -0.4 J 3) -4 J 4) -40 J

Ans. 1

Sol. $W_{B \rightarrow A} = (V_A - V_B)q$
 $= (-3 - 5) \times 5 \times 10^{-3}$
 $= -0.04$ J

47. Charges are uniformly spread on the surface of a conducting sphere. The electric field from the centre of sphere to a point outside the sphere varies with distance r from the centre as



Ans. 1

Sol. $E_{in} = 0$

$$E_{out} \propto \frac{1}{r^2}$$

48. Match column -I with Column -II related to an electric dipole of dipole moment $\vec{P}$ that is placed in a uniform electric field $\vec{E}$

Column -I Angle between $\vec{P}$ and $\vec{E}$	Column-II Potential energy of the dipole
a) 180°	i) $-pE$
b) 120°	ii) pE
c) 90°	iii) $\frac{1}{2}pE$
	iv) Zero

- 1) a-i, b-ii, c-iii 2) a-ii, b-iii, c-i
3) a-ii, b-i, c-iv 4) a-ii, b-iii, c-iv

Ans. 4

Sol. $U = -PE \cos \theta$

- a) $\theta = 180^\circ \Rightarrow \cos 180^\circ = -1 \Rightarrow U = PE$
b) $\theta = 120^\circ \Rightarrow \cos 120^\circ = -\left(\frac{1}{2}\right) \Rightarrow U = \frac{PE}{2}$
c) $\theta = 90^\circ \Rightarrow \cos 90^\circ = 0 \Rightarrow U = 0$

49. Which of the following statements is not true?
1) Work done to move a charge on an equipotential surface is not zero
2) Equipotential surfaces are the surfaces where the potential is constant
3) Equipotential surfaces for a uniform electric field are parallel and equidistant from each other.
4) Electric field is always perpendicular to an equipotential surface

Ans. 1

Sol. Properties of equipotential surface

$$\Delta v = 0$$

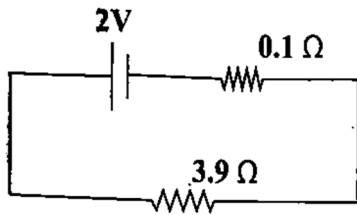
$$W = (\Delta v)q = 0$$

50. Which of the following is a correct statement ?
1) Gauss's law is true for any open surface
2) Gauss's law is not applicable when charge are not symmetrically distributed over a closed surface
3) Gauss's law does not hold good for a charge situated outside Gaussian surface
4) Gauss's law is true for any closed surface

Ans. 4

Sol. Gauss's law states that electric flux associated with any closed surface is equal to $\frac{1}{\epsilon_0}$ times of charge enclosed by that surface

51. In the following circuit, the terminal voltage across the cell is



- 1) 1.68 V 2) 1.95 V
3) 2.71 V 4) 0.52 V

Ans. 2

Sol. $R_{eq} = R + r = 3.9 + 0.1 = 4\Omega$

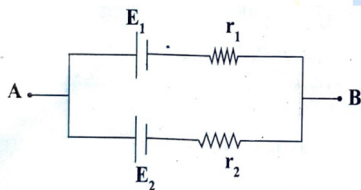
$$i = \frac{E}{R_{eq}} = \frac{2}{4} = 0.5\text{A}$$

$$V = E - ir$$

$$= 2 - 0.5 \times 0.1$$

$$= 1.95\text{V}$$

52. Two cells of emfs E_1 and E_2 and internal resistances r_1 and r_2 ($E_2 > E_1$ and $r_2 > r_1$) respectively, are connected in parallel as shown in figure. The equivalent emf of the combination is E_{eq} . Then



- 1) $E_1 < E_2 < E_{eq}$ and E_{eq} is nearer E_2
2) $E_{eq} > E_2$
3) $E_{eq} < E_1$
4) $E_1 < E_{eq} < E_2$ and E_{eq} is nearer E_1

Ans. 4

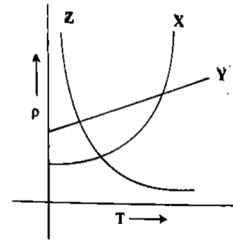
Sol. $E_{eq} = \frac{E_1 r_2 + E_2 r_1}{r_1 + r_2}$

Let $E_1 = 10\text{V}$, $r_1 = 10\Omega$

Let $E_2 = 20\text{V}$, $r_2 = 20\Omega$

$$E_{eq} = \frac{10(20) + 20(10)}{10 + 20} = \frac{400}{30} = 13.3\text{V}$$

53. The variations of resistivity ρ with absolute temperature T for three different materials X, Y and Z are shown in the graph below. Identify the materials X, Y and Z.



- 1) X-copper, Y-semiconductor, Z-nichrome
2) X-semiconductor, Y-nichrome, Z - copper
3) X- nichrome, Y-copper, Z-semiconductor
4) X-copper, Y-nichrome, Z-semiconductor

Ans. 4

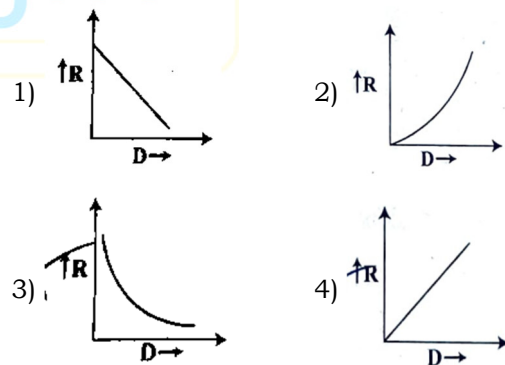
Sol. Conceptual

54. Given a current carrying wire of non-uniform cross -section, which of the following is constant throughout the length of wire
- 1) Drift speed
2) Current and drift speed
3) Current only
4) Current, electric field and drift speed

Ans. 3

Sol. Conceptual

55. The graph between variation of resistance of a metal wire as a function of its diameter keeping other parameters like length and temperature constant is



Ans. 3

Sol. $R = \frac{\rho l}{A} \left[\because A = \frac{\pi d^2}{4} \right]$

$$R = \frac{4\rho l}{\pi d^2}$$

$$R \propto \frac{1}{d^2}$$

56. Two thin long parallel wires separated by a distance 'r' from each in vacuum carry a current of I ampere in opposite directions . Then they will

- 1) Attract each other with a force per unit length of $\frac{\mu_0 I^2}{2\pi r}$
- 2) Repel each other with a force per unit length of $\frac{\mu_0 I^2}{2\pi r}$
- 3) Repel each other with a force per unit length of $\frac{\mu_0 I^2}{2\pi r^2}$
- 4) Attract each other with a force per unit length of $\frac{\mu_0 I^2}{2\pi r^2}$

Ans. 2

Sol. $\frac{F}{\ell} = \frac{\mu_0 i_1 i_2}{2\pi r}$

$\frac{F}{\ell} = \frac{\mu_0 I^2}{2\pi r}$ [Repel each other]

57. A solenoid is 1 m long and 4 cm in diameter. It has five layers of windings of 1000 turns each and carries a current of 7A. The magnetic field at the centre of the solenoid is

- 1) $0.4396 \times 10^{-5} \text{ T}$
- 2) $4.396 \times 10^{-2} \text{ T}$
- 3) $43.96 \times 10^{-2} \text{ T}$
- 4) 439.6 T

Ans. 2

Sol. $B = \mu_0 n i$

$B = 4\pi \times 10^{-7} \times 5 \times 1000 \times 7$

$B = 4.396 \times 10^{-2} \text{ T}$

58. Two similar galvanometers are converted into an ammeter and a milliammeter. The shunt resistance of ammeter as compared to the shunt resistance of milliammeter will be

- 1) Zero
- 2) More
- 3) Less
- 4) Equal

Ans. 3

Sol. The shunt of milliammeter will be of larger resistance, because a large part of main current will pass through the coil of the galvanometer which will work as small range ammeter

59. Which of the following statements is true in respect of diamagnetic substances?

- 1) They are feebly attracted by magnets
- 2) Permeability is greater than 1000
- 3) Susceptibility decreases with temperature
- 4) Susceptibility is small and negative

Ans. 4

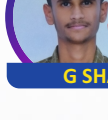
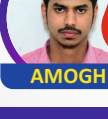
Sol. susceptibility is small and negative

60. Identify the correct statement

- 1) A current carrying conductor produces an electric field around it
- 2) A straight current carrying conductor has circular magnetic field lines around it.
- 3) The direction of magnetic field due to a current element is given by Flemings Left Hand Rule
- 4) The magnetic field inside a solenoid is non-uniform

Ans. 2

Sol. A straight current carrying conductor has a circular magnetic field lines around it

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NEET-2022 KIMS, HUBLI  631 MARKS SHRISHAIL SANASANI	NEET-2022 KIMS, HUBLI  631 MARKS SUJEET M ATHANI	NEET-2021 SABVIMS, BENGALURU  631 MARKS CHARITHA P S	NEET-2021 CIMS, CHIKKAMAGALURU  630 MARKS AMITH	NEET-2021 GIMS, GADAG  630 MARKS G SHASHANK	NEET-2021 HIMS, HAVERI  630 MARKS NISARGA T
NEET-2021 KIMS, KOPPAL  630 MARKS AMOGH B KOVALLI	NEET-2022 JSSMC, MYSORE  630 MARKS SHIVADEEP S S	NEET-2022 MMCRI, MYSORE  630 MARKS PANKAJ BASANAGOUD P	NEET-2021 BMC, BENGALURU  630 MARKS ARCHANA SUBHASH K	AND MANY MORE...	

II PU SCIENCE ANNUAL EXAM - 2025 TOPPERS

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 585 MARKS DEEPAK ROOGI 20259142895	 585 MARKS PRATAP SIMHA N S 20259228895	 585 MARKS SPOORTHI 20259153027	 585 MARKS SHREYA S HARANAL 20259153006	 585 MARKS SUPRITA 20259153038	AND MANY MORE...

JEE MAIN TOPPERS OF DR ACADEMY

 NIKHIL R JEE Adv. SELECTION IIT DHANBAD - 2022	 ISHAQ HAMZA 99.62 PERCENTILE IISC, BENGALURU - 2022	 M SRIRAM SAI SANDEEP 97.77 PERCENTILE IIIT DHARWAD - 2021	 MAKKENA SAI PRAMATHI 97.12 PERCENTILE NIT PUDUCHERRY - 2023
 LIKITH S V 95.69 PERCENTILE NIT ROURKELA - 2021	 SHAILAJA S GIRNI NIT Surathkal 220310128625 - 2022	 VINAYAGOULD KAVADI NIT Surathkal 230310865486 - 2023	 TARUN N 99.09 PERCENTILE 240310757600 - 2024
 CHIRANTHAN REDDY V 98.87 PERCENTILE 240310806545 - 2024	 ROHITH BIRADAR 97.98 PERCENTILE 220310237864 - 2022	 RAKSHA H N 97.18 PERCENTILE 240310289962 - 2024	 SHRAVYAA S 97.07 PERCENTILE 230310157233 - 2023

JEE MAIN - 2025 PHASE-I ACHIEVERS

SUBJECTWISE TOP PERCENTILE	PHY 99.67	CHE 99.51	MAT 99.23
 98.89 APP.NO. 250310925539 JAYANTH K S	 97.67 APP.NO. 250310701826 HARSH B CHOUGALA	 97.63 APP.NO. 250310059123 MOKSHALAKSHMI J	 97.39 APP.NO. 250310057681 PREETHI S

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