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Application No	250310000662
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Test Date	29/01/2025
Test Time	3:00 PM - 6:00 PM
Subject	B. Tech

Section: Mathematics Section A

If the set of all a ϵ **R**, for which the equation $2x^2 + (a-5)x + 15 = 3a$ has no real root, is the interval (α, β) , and $X = \{x \in \mathbb{Z} : \alpha < x < \beta\}$, then $\sum_{x \in X} x^2$ is equal to :

Options 1. 2119

2. 2129

3. 2109

4. 2139

Question Type: MCQ

Question ID: 6564451128 Option 1 ID: 6564453834

Option 2 ID: 6564453835 Option 3 ID: 6564453836

Option 4 ID: 6564453837

Status: Answered

Chosen Option: 4

Q.2 Let P be the foot of the perpendicular from the point (1, 2, 2) on the line L: $\frac{x-1}{1} = \frac{y+1}{-1} = \frac{z-2}{2}$.

Let the line $\overrightarrow{r} = \left(-\hat{i} + \hat{j} - 2\hat{k}\right) + \lambda \left(\hat{i} - \hat{j} + \hat{k}\right)$, $\lambda \in \mathbf{R}$, intersect the line L at Q. Then $2(PQ)^2$ is equal to:

Options 1. 27

2. 19

3. 25

4. 29

Question Type: MCQ

Question ID: 6564451141

Option 1 ID: 6564453889

Option 2 ID: 6564453886

Option 3 ID: 6564453887

Option 4 ID: 6564453888

Status: Answered

Q.3 Let a straight line L pass through the point P(2, -1, 3) and be perpendicular to the lines $\frac{x-1}{2} = \frac{y+1}{1} = \frac{z-3}{-2}$ and $\frac{x-3}{1} = \frac{y-2}{3} = \frac{z+2}{4}$. If the line L intersects the *yz*-plane at the point Q, then the distance between the points P and Q is:

Options 1. 3

- 2. 2√3
- 3. 2
- 4. $\sqrt{10}$

Question Type : MCQ

Question ID: **6564451140** Option 1 ID: **6564453882** Option 2 ID: **6564453885**

Option 3 ID : **6564453883** Option 4 ID : **6564453884**

Status : Answered

Chosen Option: 1

- **Q.4** If all the words with or without meaning made using all the letters of the word "KANPUR" are arranged as in a dictionary, then the word at 440^{th} position in this arrangement, is:
- Options 1. PRNAUK
 - 2. PRKAUN
 - 3. PRKANU
 - 4. PRNAKU

Question Type : MCQ

Question ID : **6564451131** Option 1 ID : **6564453846** Option 2 ID : **6564453849**

Option 3 ID : **6564453848** Option 4 ID : **6564453847**

Status : Answered

Chosen Option: 2

- **Q.5** Let the area enclosed between the curves $|y| = 1 x^2$ and $x^2 + y^2 = 1$ be α . If $9\alpha = \beta\pi + \gamma$; β , γ are integers, then the value of $|\beta \gamma|$ equals.
- Options _{1.} 18
 - 2. 27
 - 3. 15
 - 4. 33

Question Type: MCQ

Question ID : **6564451144** Option 1 ID : **6564453901**

Option 2 ID : 6564453899

Option 3 ID : **6564453900** Option 4 ID : **6564453898**

Status: Answered

Q.6

If for the solution curve y = f(x) of the differential equation $\frac{dy}{dx} + (\tan x)y = \frac{2 + \sec x}{(1 + 2\sec x)^2}$

$$x \in \left(\frac{-\pi}{2}, \frac{\pi}{2}\right), f\left(\frac{\pi}{3}\right) = \frac{\sqrt{3}}{10}$$
, then $f\left(\frac{\pi}{4}\right)$ is equal to :

Options

1.
$$\frac{9\sqrt{3} + 3}{10(4 + \sqrt{3})}$$

- 2. $\frac{4-\sqrt{2}}{14}$
- 3. $\frac{5-\sqrt{3}}{2\sqrt{2}}$
- 4. $\frac{\sqrt{3} + 1}{10(4 + \sqrt{3})}$

Question Type : MCQ

Question ID: 6564451145
Option 1 ID: 6564453904
Option 2 ID: 6564453903
Option 3 ID: 6564453902
Option 4 ID: 6564453905

Status : Not Attempted and Marked For Review

Chosen Option: --

Q.7 Let the function $f(x) = (x^2 - 1)|x^2 - ax + 2| + \cos|x|$ be not differentiable at the two points $x = \alpha = 2$ and $x = \beta$. Then the distance of the point (α, β) from the line 12x + 5y + 10 = 0 is equal to:

Options 1. 3

- 2. 2
- 3. 4
- 4. 5

Question Type : MCQ

Question ID: 6564451142 Option 1 ID: 6564453892 Option 2 ID: 6564453893 Option 3 ID: 6564453891 Option 4 ID: 6564453890 Status: Answered

Q.8 Let a circle C pass through the points (4, 2) and (0, 2), and its centre lie on 3x + 2y + 2 = 0. Then the length of the chord, of the circle C, whose mid-point is (1, 2), is:

- Options 1. $\sqrt{3}$

 - 4. $4\sqrt{2}$

Question Type: MCQ

Question ID: 6564451136 Option 1 ID: 6564453866 Option 2 ID: 6564453867 Option 3 ID: 6564453868 Option 4 ID: 6564453869

> Not Attempted and Status: Marked For Review

Chosen Option: --

Let \hat{a} be a unit vector perpendicular to the vectors $\vec{b} = \hat{i} - 2\hat{j} + 3\hat{k}$ and $\vec{c} = 2\hat{i} + 3\hat{j} - \hat{k}$, and makes an angle of $\cos^{-1}\left(-\frac{1}{3}\right)$ with the vector $\hat{i} + \hat{j} + \hat{k}$. If \hat{a} makes an angle of $\frac{\pi}{3}$ with the vector $\hat{i} + \alpha \hat{j} + \hat{k}$, then the value of α is :

- Options 1. $\sqrt{6}$
 - 2. $-\sqrt{3}$
 - √3
 - 4. $-\sqrt{6}$

Question Type: MCQ

Question ID: 6564451139 Option 1 ID: 6564453878 Option 2 ID: 6564453881 Option 3 ID: 6564453880 Option 4 ID: 6564453879 Status: Answered

Q.10 If the domain of the function $\log_5(18x - x^2 - 77)$ is (α, β) and the domain of the function

$$\log_{(x-1)}\!\left(\frac{2x^2+3x-2}{x^2-3x-4}\right) \text{ is } (\gamma,\,\delta)\text{, then } \alpha^2+\beta^2+\gamma^2 \text{ is equal to :}$$

- Options 1. 186
 - 2. 174
 - 3. 179
 - 4. 195

Question Type : MCQ

Question ID : 6564451126 Option 1 ID : 6564453827 Option 2 ID : 6564453826 Option 3 ID : 6564453828 Option 4 ID : 6564453829

Status : **Answered** Chosen Option : **1**

Q.11

If $\alpha x + \beta y = 109$ is the equation of the chord of the ellipse $\frac{x^2}{9} + \frac{y^2}{4} = 1$, whose mid point is $\left(\frac{5}{2}, \frac{1}{2}\right)$, then $\alpha + \beta$ is equal to :

- Options 1. 37
 - 2. 58
 - 3. 46
 - 4. 72

Question Type : MCQ

Question ID : 6564451137 Option 1 ID : 6564453870 Option 2 ID : 6564453872 Option 3 ID : 6564453871 Option 4 ID : 6564453873 Status : Answered

Chosen Option: 2

The remainder, when 7^{103} is divided by 23, is equal to:

- Options 1. 17
 - 2. 14
 - 3. 6
 - 4. 9

Question Type: MCQ

Question ID : **6564451132** Option 1 ID : **6564453853** Option 2 ID : **6564453851**

Option 3 ID : **6564453852** Option 4 ID : **6564453850**

Status: Answered

Q.13 Let $A = [a_{ij}]$ be a matrix of order 3×3 , with $a_{ij} = (\sqrt{2})^{i+j}$. If the sum of all the elements in the third row of A^2 is $\alpha + \beta \sqrt{2}$, α , $\beta \in \mathbb{Z}$, then $\alpha + \beta$ is equal to:

Options 1. 224

- 2. 210
- 3. 280
- 4. 168

- Question Type : MCQ
- Question ID : 6564451129
- Option 1 ID: 6564453840
- Option 2 ID: 6564453839
- Option 3 ID : **6564453841** Option 4 ID : **6564453838**
 - Status : Answered
- Chosen Option: 1
- **Q.14** Let α , β ($\alpha \neq \beta$) be the values of m, for which the equations x+y+z=1; x+2y+4z=m and

 $x+4y+10z=m^2$ have infinitely many solutions. Then the value of $\sum_{n=1}^{10} \left(n^{\alpha}+n^{\beta}\right)$ is equal to :

Options 1. 440

- 2. 3410
- 3. 3080
- 4. 560

- Question Type : MCQ
 - Question ID : 6564451130
 - Option 1 ID : **6564453843**
 - Option 2 ID : 6564453844
 - Option 3 ID : 6564453842
 - Option 4 ID: 6564453845
 - Status : Answered
- Chosen Option: 1

Q.15

If
$$\sin x + \sin^2 x = 1$$
, $x \in \left(0, \frac{\pi}{2}\right)$, then

 $(\cos^{12}x + \tan^{12}x) + 3(\cos^{10}x + \tan^{10}x + \cos^8x + \tan^8x) + (\cos^6x + \tan^6x)$

is equal to:

Options 1. 3

- 2. 1
- 3. 4
- 4. 2

- Question Type : MCQ
- Question ID : 6564451138
- Option 1 ID: 6564453876
- Option 2 ID: 6564453874
- Option 3 ID : 6564453877
- Option 4 ID : **6564453875**
 - Status : Not Attempted and Marked For Review
 - Ontion

Q.16 Let $A = [a_{ij}]$ be a 2×2 matrix such that $a_{ij} \in \{0, 1\}$ for all i and j. Let the random variable X denote the possible values of the determinant of the matrix A. Then, the variance of X is :

Options

- 1. $\frac{3}{8}$
- 2. $\frac{5}{8}$
- 3. $\frac{3}{4}$
- 4. $\frac{1}{4}$

Question Type : MCQ

Question ID: 6564451134
Option 1 ID: 6564453859
Option 2 ID: 6564453860
Option 3 ID: 6564453861
Option 4 ID: 6564453858
Status: Answered

Chosen Option: 1

Q.17 Let $S = N \cup \{0\}$. Define a relation R from S to **R** by :

$$R = \left\{ (x, y) : \log_{e} y = x \log_{e} \left(\frac{2}{5} \right), x \in S, y \in \mathbf{R} \right\}.$$

Then, the sum of all the elements in the range of R is equal to:

Options

- 1. $\frac{5}{3}$
- 2. $\frac{3}{2}$
- 3. $\frac{5}{2}$
- 4. $\frac{10}{9}$

Question Type : MCQ Question ID : 6564451127

Option 1 ID : 6564453832 Option 2 ID : 6564453830 Option 3 ID : 6564453831 Option 4 ID : 6564453833

Status : **Answered**

Q.18 Let the line x+y=1 meet the axes of x and y at A and B, respectively. A right angled triangle AMN is inscribed in the triangle OAB, where O is the origin and the points M and N lie on the lines

OB and AB, respectively. If the area of the triangle AMN is $\frac{4}{9}$ of the area of the triangle OAB and

AN : NB= $\!\lambda$: 1, then the sum of all possible value(s) of is λ :

- Options _{1. 2}
 - 2. $\frac{5}{2}$
 - 3. $\frac{13}{6}$
 - 4. $\frac{1}{2}$

Question Type : MCQ

Question ID : 6564451135 Option 1 ID : 6564453863 Option 2 ID : 6564453864 Option 3 ID : 6564453865

Option 4 ID : 6564453862 Status : Answered

Chosen Option: 1

- Q.19 Bag 1 contains 4 white balls and 5 black balls, and Bag 2 contains n white balls and 3 black balls. One ball is drawn randomly from Bag 1 and transferred to Bag 2. A ball is then drawn randomly from Bag 2. If the probability, that the ball drawn is white, is 29/45, then n is equal to:
- Options _{1.} 5
 - 2. 6
 - 3. 3
 - 4. 4

Question Type: MCQ

Question ID : **6564451133** Option 1 ID : **6564453856** Option 2 ID : **6564453857**

Option 3 ID : **6564453854** Option 4 ID : **6564453855**

Status : Answered

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Q.20 Let $f(x) = \int_0^x t(t^2 - 9t + 20) dt$, $1 \le x \le 5$. If the range of f is $[\alpha, \beta]$, then $4(\alpha + \beta)$ equals:

Options 1. 125

- 2. 157
- 3. 154
- 4. 253

Question Type : MCQ

Question ID: 6564451143 Option 1 ID: 6564453894 Option 2 ID: 6564453897 Option 3 ID: 6564453895 Option 4 ID: 6564453896

Status : Answered

Chosen Option: 2

Section: Mathematics Section B

Q.21 Let integers a, b \in [-3, 3] be such that $a+b\neq 0$. Then the number of all possible ordered pairs

(a, b), for which
$$\left| \frac{z-a}{z+b} \right| = 1$$
 and $\left| \begin{array}{ccc} z+1 & \omega & \omega^2 \\ \omega & z+\omega^2 & 1 \\ \omega^2 & 1 & z+\omega \end{array} \right| = 1, z \in \mathbb{C}$, where ω and ω^2 are the roots of

 $x^2 + x + 1 = 0$, is equal to ______

Give --

Ans

wer:

Question Type : **SA**

Question ID : 6564451146

Status : Not Attempted and Marked For Review

Q.22 Let
$$a_1, a_2, \ldots, a_{2024}$$
 be an Arithmetic Progression such that $a_1 + (a_5 + a_{10} + a_{15} + \ldots + a_{2020}) + a_{2024} = 2233$. Then $a_1 + a_2 + a_3 + \ldots + a_{2024}$ is equal to

Give **11132**

n Ans wer:

Question Type : SA

Question ID : 6564451147 Status : Answered

Q.23

If
$$\lim_{t\to 0} \left(\int_0^1 (3x+5)^t dx\right)^{\frac{1}{t}} = \frac{\alpha}{5e} \left(\frac{8}{5}\right)^{\frac{2}{3}}$$
, then α is equal to ______.

Give --

Ans

wer:

Question Type : SA

Question ID: 6564451149

Status : Not Attempted and

Marked For Review

Q.24 If $24\int\limits_0^{\frac{\pi}{4}} \left(\sin\left|4x-\frac{\pi}{12}\right|+\left[2\sin x\right]\right) dx=2\pi+\alpha$, where $[\cdot]$ denotes the greatest integer function, then α is equal to _____.

Give 36 n

Ans wer:

Question Type : **SA**Question ID : **6564451150**Status : **Answered**

Q.25 Let $y^2 = 12x$ be the parabola and S be its focus. Let PQ be a focal chord of the parabola such that $(SP)(SQ) = \frac{147}{4}$. Let C be the circle described taking PQ as a diameter. If the equation of a circle C is $64x^2 + 64y^2 - \alpha x - 64\sqrt{3}y = \beta$, then $\beta - \alpha$ is equal to _____.

Give -n Ans wer :

Question Type : **SA**Question ID : **6564451148**

Status : Not Attempted and Marked For Review

Section : Physics Section A

Q.26 The difference of temperature in a material can convert heat energy into electrical energy. To harvest the heat energy, the material should have

Options 1.

low thermal conductivity and high electrical conductivity

2.

high thermal conductivity and low electrical conductivity

3.

low thermal conductivity and low electrical conductivity

4.

high thermal conductivity and high electrical conductivity

Question Type : MCQ

Question ID: 6564451156 Option 1 ID: 6564453934 Option 2 ID: 6564453933

Option 3 ID : **6564453932** Option 4 ID : **6564453931**

Status : Answered

Q.27 Given below are two statements. One is labelled as Assertion (A) and the other is labelled as Reason (R).

Three identical spheres of same mass undergo one dimensional motion as shown in figure with initial velocities $v_{\rm A}$ =5 m/s, $v_{\rm B}$ =2 m/s, $v_{\rm C}$ =4 m/s. If we wait sufficiently long for elastic collision to happen, then $v_{\rm A}$ =4 m/s, $v_{\rm B}$ =2 m/s, $v_{\rm C}$ =5 m/s will be the final velocities.

Reason (R): In an elastic collision between identical masses, two objects exchange their velocities.

In the light of the above statements, choose the correct answer from the options given below:

Options 1 (A) is false but (R) is true

Both (A) and (R) are true and (R) is the correct explanation of (A)

3. (A) is true but (R) is false

4.

Both (A) and (R) are true but (R) is NOT the correct explanation of (A)

Question Type : MCQ

Question ID : 6564451153
Option 1 ID : 6564453922
Option 2 ID : 6564453919
Option 3 ID : 6564453921
Option 4 ID : 6564453920
Status : Answered

Chosen Option: 2

Q.28 A convex lens made of glass (refractive index = 1.5) has focal length 24 cm in air. When it is totally immersed in water (refractive index = 1.33), its focal length changes to

Options 1. 24 cm

2. 96 cm

3. 72 cm

4. 48 cm

Question Type : MCQ

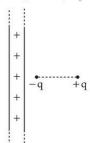
Question ID : 6564451165

Option 1 ID : **6564453967** Option 2 ID : **6564453970**

Option 3 ID : **6564453969** Option 4 ID : **6564453968**

Status : Answered

Q.29 An electric dipole is placed at a distance of 2 cm from an infinite plane sheet having positive charge density σ_0 . Choose the correct option from the following.



Options
1 Potential energy and torque both are maximum.

Torque on dipole is zero and net force acts towards the sheet.

Torque on dipole is zero and net force is directed away from the sheet.

Potential energy of dipole is minimum and torque is zero.

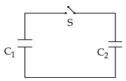
Question Type: MCQ

Question ID: 6564451162 Option 1 ID: 6564453958 Option 2 ID: 6564453955 Option 3 ID: 6564453956 Option 4 ID: 6564453957

Status: Answered

Chosen Option: 2

Q.30 A capacitor, C_1 =6 μ F is charged to a potential difference of V_0 =5V using a 5V battery. The battery is removed and another capacitor, $C_2 = 12 \mu F$ is inserted in place of the battery. When the switch 'S' is closed, the charge flows between the capacitors for some time until equilibrium condition is reached. What are the charges (q1 and q2) on the capacitors C1 and C2 when equilibrium condition



Options 1
$$q_1 = 15 \mu C$$
, $q_2 = 30 \mu C$

2.
$$q_1 = 20 \mu C$$
, $q_2 = 10 \mu C$

3.
$$q_1 = 10 \mu C$$
, $q_2 = 20 \mu C$

4.
$$q_1 = 30 \mu C$$
, $q_2 = 15 \mu C$

Question Type: MCQ

Question ID: 6564451163 Option 1 ID: 6564453962

Option 2 ID: 6564453959 Option 3 ID: 6564453961 Option 4 ID: 6564453960

Status: Answered

Q.31 The number of spectral lines emitted by atomic hydrogen that is in the 4th energy level, is

Options 1. 1

2. 6

3. 3

4. 0

Question Type : MCQ

Question ID : 6564451168 Option 1 ID : 6564453981 Option 2 ID : 6564453979 Option 3 ID : 6564453980 Option 4 ID : 6564453982

Status: Answered

Chosen Option : 2

Q.32 Given below are two statements. One is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): With the increase in the pressure of an ideal gas, the volume falls off more rapidly in an isothermal process in comparison to the adiabatic process.

Reason (R): In isothermal process, PV = constant, while in adiabatic process $PV^{\gamma} = constant$.

Here γ is the ratio of specific heats, P is the pressure and V is the volume of the ideal gas.

In the light of the above statements, choose the correct answer from the options given below:

Options 1.

Both (A) and (R) are true and (R) is the correct explanation of (A)

2. (A) is true but (R) is false

3. (A) is false but (R) is true

4.

Both (A) and (R) are true but (R) is NOT the correct explanation of (A)

Question Type : MCQ

Question ID : 6564451158
Option 1 ID : 6564453939
Option 2 ID : 6564453941
Option 3 ID : 6564453942
Option 4 ID : 6564453940
Status : Answered

Q.33 A sand dropper drops sand of mass m(t) on a conveyer belt at a rate proportional to the square root of speed (v) of the belt, i.e. $\frac{\mathrm{dm}}{\mathrm{dt}} \propto \sqrt{v}$. If P is the power delivered to run the belt at constant speed then which of the following relationship is true?

Options 1. $P^2 \propto v^5$

- ^{2.} $P \propto \sqrt{v}$
- 3. P \prec v
- ⁴ $P^2 \propto v^3$

Question Type : MCQ

Question ID : 6564451152 Option 1 ID : 6564453917 Option 2 ID : 6564453918 Option 3 ID : 6564453915 Option 4 ID : 6564453916

Status: Answered

Chosen Option : 1

Q.34 In an experiment with photoelectric effect, the stopping potential,

Options 1.

increases with increase in the wavelength of the incident light

2.

decreases with increase in the intensity of the incident light

3.

increases with increase in the intensity of the incident light

4.

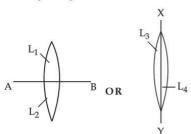
is $\left(\frac{1}{e}\right)$ times the maximum kinetic energy of the emitted photoelectrons

Question Type : MCQ

Question ID: 6564451169 Option 1 ID: 6564453983 Option 2 ID: 6564453984 Option 3 ID: 6564453985 Option 4 ID: 6564453986

Status : **Answered** Chosen Option : **4**

Q.35 Two identical symmetric double convex lenses of focal length f are cut into two equal parts L_1 , L_2 by AB plane and L_3 , L_4 by XY plane as shown in figure respectively. The ratio of focal lengths of lenses L_1 and L_3 is



Options 1. 1:1

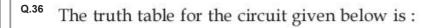
2. 2:1

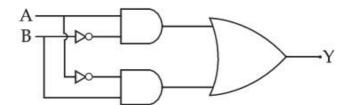
3. 1:2

4. 1:4

Question Type : MCQ

Question ID : 6564451166 Option 1 ID : 6564453971 Option 2 ID : 6564453973 Option 3 ID : 6564453972 Option 4 ID : 6564453974 Status : Answered





Options

1.

3.

В	Y
0	0
0	1
1	0
1	0
	0

Α	В	Y
0	0	0
0	1	1
1	0	1
1	1	0

A	В	Y
0	0	0
1	1	1
1	0	1
0	1	1

	A	В	Y
	0	0	0
4.	1	0	0
	1	1	0
	0	1	1

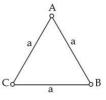
Question Type: MCQ

Question ID : 6564451170 Option 1 ID : 6564453988 Option 2 ID : 6564453987 Option 3 ID : 6564453989

Option 4 ID : **6564453990** Status : **Answered**

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Q.37



Three equal masses m are kept at vertices (A, B, C) of an equilateral triangle of side a in free space.

At t=0, they are given an initial velocity $\overrightarrow{V_A} = V_0$ \overrightarrow{AC} , $\overrightarrow{V_B} = V_0$ \overrightarrow{BA} and $\overrightarrow{V_C} = V_0$ \overrightarrow{CB} . Here,

AC, CB and BA are unit vectors along the edges of the triangle. If the three masses interact gravitationally, then the magnitude of the net angular momentum of the system at the point of collision is:

Options

$$\frac{1}{2}$$
 a m V₀

2.
$$3 \text{ a m V}_0$$

$$^{3.}~\frac{3}{2}~a~m~V_{0}$$

4.
$$\frac{\sqrt{3}}{2}$$
 a m V₀

Question Type : MCQ

Question ID : 6564451154

Option 1 ID : 6564453923

Option 2 ID : **6564453924** Option 3 ID : **6564453925**

Option 4 ID : 6564453926

Status : Answered

Chosen Option: 3

Q.38 Two bodies A and B of equal mass are suspended from two massless springs of spring constant k_1 and k_2 , respectively. If the bodies oscillate vertically such that their amplitudes are equal, the ratio of the maximum velocity of A to the maximum velocity of B is

Options

$$\frac{k_2}{k_1}$$

$$\frac{k_1}{k_2}$$

3.
$$\sqrt{\frac{k_1}{k_2}}$$

4.
$$\sqrt{\frac{k_2}{k_1}}$$

Question Type: MCQ

Question ID: 6564451159

Option 1 ID: 6564453946

Option 2 ID: 6564453945

Option 3 ID: 6564453943

Option 4 ID: 6564453944

Status : Answered

Q.39 A point charge causes an electric flux of -2×10^4 Nm²C⁻¹ to pass through a spherical Gaussian surface of 8.0 cm radius, centred on the charge. The value of the point charge is : (Given $\epsilon_0 = 8.85 \times 10^{-12}$ C²N⁻¹m⁻²)

Options 1. -17.7×10^{-8} C

- 2 15.7×10⁻⁸ C
- 3. 17.7×10^{-8} C
- 4. -15.7×10^{-8} C

Question Type : MCQ

Question ID: 6564451160
Option 1 ID: 6564453950
Option 2 ID: 6564453948
Option 3 ID: 6564453947
Option 4 ID: 6564453949
Status: Answered

Chosen Option: 1

Q.40 A cup of coffee cools from 90° C to 80° C in t minutes when the room temperature is 20° C. The time taken by the similar cup of coffee to cool from 80° C to 60° C at the same room temperature is :

Options

- 1. $\frac{13}{10}$
- $\frac{5}{13}$ t
- $\frac{13}{5}$ t
- $\frac{10}{13}$ t

Question Type : MCQ

Question ID: 6564451155
Option 1 ID: 6564453930
Option 2 ID: 6564453929
Option 3 ID: 6564453928
Option 4 ID: 6564453927
Status: Answered

Q.41 A plane electromagnetic wave propagates along the +x direction in free space. The components of the electric field, \overrightarrow{E} and magnetic field, \overrightarrow{B} vectors associated with the wave in Cartesian frame are

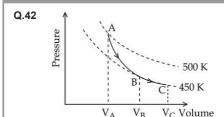
Options 1. E_x , B_y

- 2. \mathbf{E}_z , \mathbf{B}_y
- з. \mathbf{E}_y , \mathbf{B}_x
- 4. E_y , B_z

Question Type : MCQ

Question ID : 6564451164
Option 1 ID : 6564453963
Option 2 ID : 6564453966
Option 3 ID : 6564453965
Option 4 ID : 6564453964
Status : Answered

Chosen Option: 4



A poly-atomic molecule ($C_V=3R$, $C_p=4R$, where R is gas constant) goes from phase space point $A(P_A=10^5~Pa,~V_A=4\times10^{-6}~m^3)$ to point $B(P_B=5\times10^4~Pa,~V_B=6\times10^{-6}~m^3)$ to point $C(P_C=10^4~Pa,~V_C=8\times10^{-6}~m^3)$. A to B is an adiabatic path and B to C is an isothermal path.

The net heat absorbed per unit mole by the system is:

Options 1. 500R(ln3 + ln4)

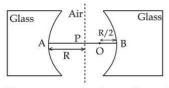
- 2. 500R ln2
- 3. 450R(ln4-ln3)
- 4. 400R ln4

Question Type: MCQ

Question ID: 6564451157 Option 1 ID: 6564453938 Option 2 ID: 6564453935 Option 3 ID: 6564453937 Option 4 ID: 6564453936

Status : Answered

Q.43



Two concave refracting surfaces of equal radii of curvature and refractive index 1.5 face each other in air as shown in figure. A point object O is placed midway, between P and B. The separation between the images of O, formed by each refracting surface is:

Options 1. 0.124R

- 2. 0.411R
- 3. 0.214R
- 4. 0.114R

Question Type: MCQ

Question ID: 6564451167 Option 1 ID: 6564453976 Option 2 ID: 6564453977 Option 3 ID: 6564453975 Option 4 ID: 6564453978

Status : Answered

Chosen Option: 1

Q.44 Match List - I with List - II.

List - I

List - II

- (A) Young's Modulus
- (I) $M L^{-1} T^{-1}$

(B) Torque

- (II) $M L^{-1} T^{-2}$
- (C) Coefficient of Viscosity
- (III) $M^{-1}L^3T^{-2}$
- (D) Gravitational Constant
- (IV) $M L^2 T^{-2}$

Choose the correct answer from the options given below:

Options 1. (A)-(II), (B)-(IV), (C)-(I), (D)-(III)

- 2. (A)-(IV), (B)-(II), (C)-(III), (D)-(I)
- 3. (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- 4. (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

Question Type: MCQ

Question ID: 6564451151 Option 1 ID: 6564453913 Option 2 ID: 6564453912 Option 3 ID: 6564453911 Option 4 ID: 6564453914

Status : Answered

Q.45 Match List - I with List - II.

List - I

List - II

- (A) Magnetic induction
- (I) Ampere meter²
- (B) Magnetic intensity
- (II) Weber
- (C) Magnetic flux
- (III) Gauss
- (D) Magnetic moment
- (IV) Ampere meter

Choose the correct answer from the options given below:

Options 1 (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

- 2. (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- 3. (A)-(III), (B)-(II), (C)-(I), (D)-(IV)
- 4. (A)-(I), (B)-(II), (C)-(III), (D)-(IV)

Question Type : MCQ

Question ID : 6564451161 Option 1 ID : 6564453953 Option 2 ID : 6564453954 Option 3 ID : 6564453951 Option 4 ID : 6564453952 Status : Answered

Chosen Option: 2

Section: Physics Section B

Q.46 A physical quantity Q is related to four observables a, b, c, d as follows:

$$Q = \frac{ab^4}{cd}$$

where, $a = (60 \pm 3) Pa$; $b = (20 \pm 0.1) m$; $c = (40 \pm 0.2) N s m^{-2}$ and $d = (50 \pm 0.1) m$, then the percentage error in Q is $\frac{x}{1000}$, where $x = \underline{\qquad}$.

Give **77**

Ans wer:

Question Type : SA

Question ID : 6564451171 Status : Answered

Q.47 A parallel plate capacitor consisting of two circular plates of radius 10 cm is being charged by a constant current of 0.15 A. If the rate of change of potential difference between the plates is 7×10^8 V/s then the integer value of the distance between the parallel plates is

$$\left(\text{Take, } \epsilon_0 = 9 \times 10^{-12} \ \frac{\text{F}}{\text{m}}, \ \pi = \frac{22}{7}\right) - \underline{\hspace{1cm}} \mu\text{m}.$$

Give 1320

Ans wer:

Question Type : SA

Question ID : 6564451175 Status : Answered

	2025,	rois arguments/pen/g20/pub/2005/touchstone/105055mentQ111	1111211100011112003021
	Q.48	Two planets, A and B are orbiting a common star in circular orbits of radii \boldsymbol{R}_{Λ}	and R_B , respectively,
		with $R_B = 2R_A$. The planet B is $4\sqrt{2}$ times more massive than planet A. The ra	tio $\left(\frac{L_B}{L_A}\right)$ of angular
		momentum $(L_{\boldsymbol{B}})$ of planet B to that of planet $A(L_{\boldsymbol{A}})$ is closest to integer	<u></u>
	Give	19	
	n		
	Ans		
	wer:		
			Quest
- 1			Qu

Question Type : SA

Question ID : 6564451173

Status : Answered

Q.49 The magnetic field inside a 200 turns solenoid of radius 10 cm is 2.9×10^{-4} Tesla. If the solenoid carries a current of 0.29 A, then the length of the solenoid is ______ π cm.

Give 4 n Ans

wer:

Question Type : SA

Question ID : 6564451174

Status : Answered

Q.50 Two cars P and Q are moving on a road in the same direction. Accleration of car P increases linearly with time whereas car Q moves with a constant accleration. Both cars cross each other at time t=0, for the first time. The maximum possible number of crossing(s) (including the crossing at t=0) is ______.

Give **2** n Ans

wer:

Question Type : SA

Question ID : 6564451172

Status : Answered

Section: Chemistry Section A

Q.51 The calculated spin-only magnetic moments of $K_3[Fe(OH)_6]$ and $K_4[Fe(OH)_6]$ respectively are :

Options 1 4.90 and 5.92 B.M.

² 5.92 and 4.90 B.M.

3. 3.87 and 4.90 B.M.

4 4.90 and 4.90 B.M.

Question Type : MCQ

Question ID: 6564451187 Option 1 ID: 6564454041 Option 2 ID: 6564454040 Option 3 ID: 6564454043 Option 4 ID: 6564454042 Status: Answered

Q.52 Consider the equilibrium

 $CO(g) + 3H_2(g) \Rightarrow CH_4(g) + H_2O(g)$

If the pressure applied over the system increases by two fold at constant temperature then

- (A) Concentration of reactants and products increases.
- Equilibrium will shift in forward direction.
- (C) Equilibrium constant increases since concentration of products increases.
- (D) Equilibrium constant remains unchanged as concentration of reactants and products remain same.

Choose the correct answer from the options given below:

- Options 1. (A), (B) and (D) only
 - 2. (B) and (C) only
 - 3. (A), (B) and (C) only
 - 4. (A) and (B) only

Question Type: MCQ

Question ID: 6564451181 Option 1 ID: 6564454019 Option 2 ID: 6564454017 Option 3 ID: 6564454016 Option 4 ID: 6564454018 Status: Answered

Chosen Option: 4

Q.53 Identify the homoleptic complexes with odd number of d electrons in the central metal:

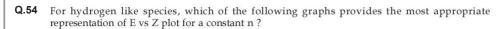
- (A) $[FeO_4]^{2}$
- (B) $[Fe(CN)_6]^{3-}$
- (C) [Fe(CN)₅NO]²⁻
- (D) [CoCl₄]²⁻
- (E) $[Co(H_2O)_3F_3]$

Choose the correct answer from the options given below:

- Options 1. (B) and (D) only
 - 2. (A), (C) and (E) only
 - 3. (C) and (E) only
 - 4. (A), (B) and (D) only

Question Type: MCQ

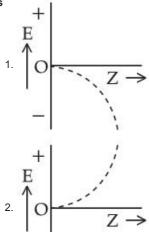
Question ID: 6564451188 Option 1 ID: 6564454044 Option 2 ID: 6564454047 Option 3 ID: 6564454045 Option 4 ID: 6564454046 Status: Answered

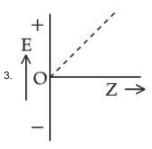


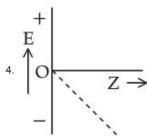
[E: Energy of the stationary state,

Z : atomic number, n=principal quantum number]









Question Type : MCQ

Question ID : 6564451178
Option 1 ID : 6564454006
Option 2 ID : 6564454004
Option 3 ID : 6564454005
Option 4 ID : 6564454007
Status : Answered

Q.55 First ionisation enthalpy values of first four group 15 elements are given below. Choose the correct value for the element that is a main component of apatite family:

- Options 1. 1012 kJ mol⁻¹
 - ² 834 kJ mol⁻¹
 - 3. 947 kJ mol⁻¹
 - 4 1402 kJ mol⁻¹

Question Type: MCQ

Question ID: 6564451186 Option 1 ID: 6564454038 Option 2 ID: 6564454036 Option 3 ID: 6564454037 Option 4 ID: 6564454039 Status: Answered

Chosen Option: 4

0.1 M solution of KI reacts with excess of H₂SO₄ and KIO₃ solutions. According to equation

$$5I^- + IO_3^- + 6H^+ \rightarrow 3I_2 + 3H_2O$$

Identify the correct statements:

- (A) 200 mL of KI solution reacts with 0.004 mol of KIO₃
- (B) 200 mL of KI solution reacts with 0.006 mol of H₂SO₄
- (C) 0.5 L of KI solution produced 0.005 mol of I_2
- (D) Equivalent weight of KIO_3 is equal to $\left(\frac{Molecular\ weight}{F}\right)$

Choose the correct answer from the options given below:

- Options 1. (A) and (D) only
 - 2. (A) and (B) only
 - 3. (B) and (C) only
 - 4. (C) and (D) only

Question Type: MCQ

Question ID: 6564451176 Option 1 ID: 6564453998

Option 2 ID: 6564453996 Option 3 ID: 6564453997 Option 4 ID: 6564453999

Status: Answered

Q.57 Identify the essential amino acids from below:

- (A) Valine
- (B) Proline
- (C) Lysine
- (D) Threonine
- (E) Tyrosine

Choose the correct answer from the options given below:

Options 1. (B), (C) and (E) only

- 2. (C), (D) and (E) only
- 3. (A), (C) and (E) only
- 4. (A), (C) and (D) only

Question Type : MCQ

Question ID : 6564451195 Option 1 ID : 6564454072 Option 2 ID : 6564454075 Option 3 ID : 6564454074 Option 4 ID : 6564454073

Status: Answered

Chosen Option: 2

Q.58 Given below are two statements:

Statement (I): NaCl is added to the ice at 0°C, present in the ice cream box to prevent the melting of ice cream.

Statement (II): On addition of NaCl to ice at 0° C, there is a depression in freezing point. In the light of the above statements, choose the **correct** answer from the options given below:

Options 1 Both Statement I and Statement II are false

- Statement I is false but Statement II is true
- 3. Statement I is true but Statement II is false
- 4 Both Statement I and Statement II are true

Question Type : \boldsymbol{MCQ}

Question ID : 6564451180
Option 1 ID : 6564454013
Option 2 ID : 6564454015
Option 3 ID : 6564454014
Option 4 ID : 6564454012

Status : Answered

Q.59 Given below are two statements:

Statement (II): -CH₃ group is o/p-directing while -NO₂ group is m-directing group.

In the light of the above statements, choose the **correct** answer from the options given below:

Options 1 Statement I is false but Statement II is true

- 2 Both Statement I and Statement II are false
- 3. Statement I is true but Statement II is false
- 4. Both Statement I and Statement II are true

Question Type: MCQ

Question ID: 6564451191 Option 1 ID: 6564454059 Option 2 ID: 6564454057 Option 3 ID: 6564454058 Option 4 ID: 6564454056

Status : Answered

Chosen Option: 4

Q.60 Total number of sigma (σ) _____ and $pi(\pi)$ ____ bonds respectively present in hex-1-en-4-yne are :

Options 1. 11 and 3

2. 14 and 3

3. 13 and 3

4. 3 and 13

Question Type : MCQ

Question ID: 6564451190 Option 1 ID: 6564454055 Option 2 ID: 6564454054 Option 3 ID: 6564454053 Option 4 ID: 6564454052

Status : Answered

Chosen Option: 3

Q.61 Given below are two statements:

Statement (I): In partition chromatography, stationary phase is thin film of liquid present in the inert support.

Statement (II): In paper chromatography, the material of paper acts as a stationary phase. In the light of the above statements, choose the **correct** answer from the options given below:

Options 1 Both Statement I and Statement II are true

- 2. Both Statement I and Statement II are false
- 3. Statement I is true but Statement II is false
- 4. Statement I is false but Statement II is true

Question Type : MCQ

Question ID: 6564451189

Option 1 ID : 6564454048

Option 2 ID: 6564454049

Option 3 ID: 6564454050

Option 4 ID : 6564454051

Status: Answered

Q.62 Which among the following halides will generate the most stable carbocation in the nucleophilic substitution reaction?

Options

Question Type : MCQ

Question ID : 6564451192
Option 1 ID : 6564454063
Option 2 ID : 6564454061
Option 3 ID : 6564454060
Option 4 ID : 6564454062
Status : Answered

Chosen Option: 1

Q.63 O₂ gas will be evolved as a product of electrolysis of:

- (A) an aqueous solution of AgNO3 using silver electrodes.
- (B) an aqueous solution of AgNO₃ using platinum electrodes.
- (C) a dilute solution of H₂SO₄ using platinum electrodes.
- (D) a high concentration solution of H₂SO₄ using platinum electrodes.

Choose the correct answer from the options given below:

Options 1. (B) and (C) only

- 2. (A) and (D) only
- 3. (B) and (D) only
- 4. (A) and (C) only

Question Type : MCQ

Question ID : 6564451182 Option 1 ID : 6564454021 Option 2 ID : 6564454020 Option 3 ID : 6564454023 Option 4 ID : 6564454022

Status : Answered

Q.64 The type of oxide formed by the element among Li, Na, Be, Mg, B and Al that has the least atomic radius is:

Options 1. AO

- 2. AO₂
- з. A₂O₃
- 4. A₂O

Question Type : MCQ

Question ID : 6564451185 Option 1 ID : 6564454035 Option 2 ID : 6564454033 Option 3 ID : 6564454034 Option 4 ID : 6564454032

Status: Answered

Chosen Option: 3

Q.65

If
$$C(diamond) \rightarrow C(graphite) + X kJ mol^{-1}$$

 $C(diamond) + O_2(g) \rightarrow CO_2(g) + Y kJ mol^{-1}$
 $C(graphite) + O_2(g) \rightarrow CO_2(g) + Z kJ mol^{-1}$
at constant temperature. Then

Options 1.
$$X = Y + Z$$

2.
$$-X = Y + Z$$

3.
$$X = -Y + Z$$

4.
$$X = Y - Z$$

Question Type: MCQ

Question ID : 6564451179
Option 1 ID : 6564454009
Option 2 ID : 6564454011
Option 3 ID : 6564454010
Option 4 ID : 6564454008
Status : Answered

Q.66 Which one of the following, with HBr will give a phenol?

Options

Question Type : \boldsymbol{MCQ}

Question ID : 6564451193 Option 1 ID : 6564454065 Option 2 ID : 6564454066 Option 3 ID : 6564454067 Option 4 ID : 6564454064

Status : **Answered** Chosen Option : **1**

Q.67 Drug X becomes ineffective after 50% decomposition. The original concentration of drug in a bottle was 16 mg/mL which becomes 4 mg/mL in 12 months. The expiry time of the drug in months is

Assume that the decomposition of the drug follows first order kinetics.

Options 1. 12

2. 3

3. 2

4. 6

Question Type : \boldsymbol{MCQ}

Question ID : 6564451184

Option 1 ID: 6564454029

Option 2 ID : **6564454030**

Option 3 ID: 6564454031

Option 4 ID: 6564454028

Status: Answered

Q.68 Which one of the following reaction sequences will give an azo dye?

Options

SO₃H (i) SOCl₂ (ii) NH₃ (iii)
$$CH_2-Cl$$

NO₂ (i) Sn/HCl (ii) NaNO₂/HCl (iii)
$$\beta$$
-naphthol, NaOH

Question Type : MCQ

Question ID : 6564451194
Option 1 ID : 6564454071
Option 2 ID : 6564454068
Option 3 ID : 6564454070
Option 4 ID : 6564454069
Status : Answered

Q.69 Match List - I with List - II:

List - I List - II
Applications Batteries/Cell

- (A) Transistors (I) Anode Zn/Hg; Cathode HgO+C
- (B) Hearing aids (II) Hydrogen fuel cell
- (C) Invertors (III) Anode Zn ; Cathode Carbon
- (D) Apollo space ship (IV) Anode Pb ; Cathode Pb \mid PbO $_2$

Choose the correct answer from the options given below:

Options 1. (A)-(III), (B)-(II), (C)-(IV), (D)-(I)

- 2. (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- 3. (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- 4. (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

Question Type : MCQ

Question ID : 6564451183
Option 1 ID : 6564454026
Option 2 ID : 6564454025
Option 3 ID : 6564454024
Option 4 ID : 6564454027
Status : Answered

Chosen Option: 2

Q.70 Given below are two statements:

Statement (I): It is impossible to specify simultaneously with arbitrary precision, both the linear momentum and the position of a particle.

Statement (II): If the uncertainty in the measurement of position and uncertainty in measurement of momentum are equal for an electron, then the uncertainty in the measurement

of velocity is $\geqslant \sqrt{\frac{h}{\pi}} \times \frac{1}{2 \, m}$.

In the light of the above statements, choose the correct answer from the options given below :

Options 1. Statement I is true but Statement II is false

- 2. Statement I is false but Statement II is true
- 3. Both Statement I and Statement II are false
- 4. Both Statement I and Statement II are true

Question Type : MCQ

Question ID: 6564451177 Option 1 ID: 6564454002 Option 2 ID: 6564454003 Option 3 ID: 6564454001 Option 4 ID: 6564454000

Status : Answered

Chosen Option: 4

Section : Chemistry Section B

Q.71 In the Claisen-Schmidt reaction to prepare, dibenzalacetone from 5.3 g of b 3.51 g of product was obtained. The percentage yield in this reaction was	enzaldehyde, a total of s%.
Give 77 n	
Ans wer:	
	Question Type : SA
	Question ID : 6564451200 Status : Answered
	Cialus : Aliswelled
Q.72 Isomeric hydrocarbons \rightarrow negative Baeyer's test (Molecular formula C_9H_{12})	
The total number of isomers from above with four different non-aliphatic	c substitution sites is -
Give n	
Ans wer:	
	Question Type : SA
	Question ID : 6564451199
	Status : Not Attempted and Marked For Review
Q.73 In the sulphur estimation, 0.20 g of a pure organic compound gave 0.40 g of percentage of sulphur in the compound is × 10 ⁻¹ %. (Molar mass: O=16, S=32, Ba=137 in g mol ⁻¹)	f barium sulphate. The
Give 275	
n Ans	
n	
n Ans	Question Type : SA
n Ans	Question Type : SA Question ID : 6564451198 Status : Answered
n Ans wer:	Question ID : 6564451198 Status : Answered
n Ans wer: Q.74 Total number of non bonded electrons present in NO ₂ ⁻ ion based on Lewi	Question ID : 6564451198 Status : Answered
n Ans wer :	Question ID : 6564451198 Status : Answered
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n Ans wer: Q.74 Total number of non bonded electrons present in NO ₂ ⁻ ion based on Lewi Give 1 n Ans	Question ID: 6564451198 Status: Answered is theory is Question Type: SA
n Ans wer: Q.74 Total number of non bonded electrons present in NO ₂ ⁻ ion based on Lewi Give 1 n Ans wer: Q.75 Consider the following low-spin complexes K ₃ [Co(NO ₂) ₆], K ₄ [Fe(CN) ₆], K ₃ [Fe(CN) ₆], Cu ₂ [Fe(CN) ₆] and Zn ₂ [Fe(CN) ₆].	Question ID : 6564451198 Status : Answered is theory is Question Type : SA Question ID : 6564451196 Status : Answered
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n Ans wer: Q.74 Total number of non bonded electrons present in NO ₂ ⁻ ion based on Lewi Give 1 n Ans wer: Q.75 Consider the following low-spin complexes K ₃ [Co(NO ₂) ₆], K ₄ [Fe(CN) ₆], K ₃ [Fe(CN) ₆], Cu ₂ [Fe(CN) ₆] and Zn ₂ [Fe(CN) ₆]. The sum of the spin-only magnetic moment values of complexes having yello B.M. (answer in nearest integer) Give n	Question ID: 6564451198 Status: Answered Question Type: SA Question ID: 6564451196 Status: Answered Ow colour is