### JEE 2023 Session-1 24th Jan to 1st Feb 2023

Application No Candidate Name	
Roll No	
Test Date	24/01/2023
Test Time	9:00 AM - 12:00 PM
Subject	В ТЕСН

Section: Physics Section A

- Q.1 From the photoelectric effect experiment, following observations are made. Identify which of these are correct.
  - A. The stopping potential depends only on the work function of the metal.
  - B. The saturation current increases as the intensity of incident light increases.
  - C. The maximum kinetic energy of a photo electron depends on the intensity of the incident light.
  - D. Photoelectric effect can be explained using wave theory of light.

Choose the correct answer from the options given below:

Options 1. A, B, D only

- 2. B, C only
- 3. B only
- 4. A, C, D only

Question Type : MCQ

Question ID : 7155051453

Option 1 ID : 7155054370

Option 2 ID : **7155054371** Option 3 ID : **7155054369** 

Option 4 ID : **7155054372** 

Status : Answered

Chosen Option: 3

Q.2 Given below are two statements :

**Statement I :** If the Brewster's angle for the light propagating from air to glass is  $\theta_B$ , then the Brewster's angle for the light propagating from glass to air is  $\frac{\pi}{2} - \theta_B$ 

**Statement II:** The Brewster's angle for the light propagating from glass to air is  $\tan^{-1}(\mu_g)$  where  $\mu_g$  is the refractive index of grass.

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

Question Type :  $\mbox{\bf MCQ}$ 

Question ID: 7155051454

Option 1 ID : **7155054375** 

Option 2 ID : **7155054374** 

Option 3 ID: **7155054373** Option 4 ID: **7155054376** 

Status : Not Answered

Q.3 Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason** 

**Assertion A:** Photodiodes are preferably operated in reverse bias condition for light intensity measurement.

**Reason R:** The current in the forward bias is more than the current in the reverse bias for a p-n junction diode.

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

2. A is true but R is false

3.

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

4.

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

Question Type: MCQ

Question ID: 7155051451 Option 1 ID: 7155054364 Option 2 ID: 7155054363 Option 3 ID: 7155054362 Option 4 ID: 7155054361 Status: Answered

Chosen Option: 4

Q.4 A circular loop of radius r is carrying current I A. The ratio of magnetic field at the center of circular loop and at a distance r from the center of the loop on its axis is:

Options 1.  $1:3\sqrt{2}$ 

- 2.  $2\sqrt{2}:1$
- 3.  $1:\sqrt{2}$
- 4.  $3\sqrt{2}:2$

Question Type : MCQ Question ID : 7155051458

> Option 1 ID : Option 2 ID : Option 3 ID : Option 4 ID :

> > Status: Answered

Chosen Option: 3

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Q.5 In  $\overline{E}$  and  $\overline{K}$  represent electric field and propagation vectors of the EM waves in vacuum, then magnetic field vector is given by:

(ω - angular frequency):

Options 1.  $\overline{K} \times \overline{E}$ 

2. 
$$\frac{1}{\omega} \left( \overline{K} \times \overline{E} \right)$$

з. 
$$\omega \left(\overline{K} \times \overline{E}\right)$$

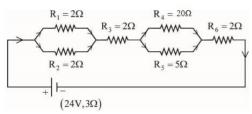
4. 
$$\omega(\overline{E} \times \overline{K})$$

Question Type : MCQ

Question ID: 7155051455 Option 1 ID: 7155054379 Option 2 ID: 7155054380 Option 3 ID: 7155054377 Option 4 ID: 7155054378

Status : Answered

As shown in the figure, a network of resistors is connected to a battery of 24V with an internal resistance of 3Ω. The currents through the resistors R<sub>4</sub> and R<sub>5</sub> are I<sub>4</sub> and I<sub>5</sub> respectively. The values



Options 1. 
$$I_4 = \frac{8}{5} A$$
 and  $I_5 = \frac{2}{5} A$ 

2. 
$$I_4 = \frac{6}{5} A$$
 and  $I_5 = \frac{24}{5} A$ 

3. 
$$I_4 = \frac{2}{5}A$$
 and  $I_5 = \frac{8}{5}A$ 

4. 
$$I_4 = \frac{24}{5} A$$
 and  $I_5 = \frac{6}{5} A$ 

Question Type : MCQ

Question ID: 7155051459

Option 1 ID: 7155054394

Option 2 ID: 7155054395

Option 3 ID: 7155054393

Option 4 ID: 7155054396 Status : Answered

Chosen Option: 3

placed in on charges in If two charges q<sub>1</sub> and q<sub>2</sub> are separated with distance 'd' and placed in a medium of dielectric constant K. What will be the equivalent distance between charges in air for the same electrostatic

Options 1.  $1 \cdot 5d\sqrt{k}$ 

- $2.2d\sqrt{k}$
- 3.  $d\sqrt{k}$
- 4.  $k\sqrt{d}$

Question Type: MCQ

Question ID: 7155051460

Option 1 ID: 7155054398

Option 2 ID: 7155054399

Option 3 ID: 7155054397

Option 4 ID: 7155054400

Status: Answered

The maximum vertical height to which a man can throw a ball is 136 m. The maximum horizontal distance upto which he can throw the same ball is:

Options 1. 192 m

- 2. 272 m
- 3.136 m
- 4.68 m

Question Type: MCQ

Option 2 ID: 7155054331 Option 3 ID: 7155054329 Option 4 ID: 7155054330

Question ID: 7155051443 Option 1 ID: 7155054332

> Status: Not Answered Chosen Option: --

Given below are two statements: Q.9

> Statement I: The temperature of a gas is -73°C. When the gas is heated to 527°C, the root mean square speed of the molecules is doubled.

Statement II: The product of pressure and volume of an ideal gas will be equal to translational kinetic energy of the molecules.

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

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

Question Type : MCQ

Question ID: 7155051449

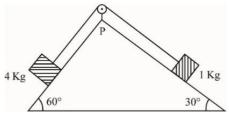
Option 1 ID: 7155054355

Option 2 ID: 7155054356

Option 3 ID: 7155054353 Option 4 ID: 7155054354

Status: Not Answered

Q.10 As per given figure, a weightless pulley P is attached on a double inclined frictionless surfaces. The tension in the string (massless) will be (if  $g = 10 \text{ m/s}^2$ )



Options 1. 
$$4(\sqrt{3}+1)N$$

$$2 \cdot \left(4\sqrt{3} + 1\right) N$$

з. 
$$4\left(\sqrt{3}-1\right)N$$

4. 
$$(4\sqrt{3}-1)N$$

Question Type: MCQ

Question ID: 7155051445

Option 1 ID: 7155054339

Option 2 ID: 7155054338

Option 3 ID: 7155054340 Option 4 ID: 7155054337

Status: Not Answered

Chosen Option: --

Q.11 Consider the following radioactive decay process

The mass number and the atomic number of 
$$A_6$$
 are given by:

31. 210 and 82

2. 210 and 80

3. 211 and 80

4. 210 and 84

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The mass number and the atomic number of A6 are given by:

Options 1. 210 and 82

- 2. 210 and 80
- 3. 211 and 80
- 4. 210 and 84

Question Type: MCQ

Question ID: 7155051452

Option 1 ID: 7155054365

Option 2 ID: 7155054366

Option 3 ID: 7155054368

Option 4 ID: 7155054367

Status: Answered

Q.12 The weight of a body at the surface of earth is 18 N. The weight of the body at an altitude of 3200 km above the earth's surface is (given, radius of earth  $R_e$  = 6400 km):

Options 1. 9.8 N

- 2.19.6 N
- 3. 4.9 N
- 4.8 N

Question Type: MCQ

Question ID: 7155051446

Option 1 ID: 7155054344

Option 2 ID: 7155054342 Option 3 ID: 7155054341

Option 4 ID: 7155054343

Status: Not Answered

Chosen Option: --

A conducting circular loop of radius  $\frac{10}{\sqrt{\pi}}$  cm is placed perpendicular to a uniform magnetic field of Q.13

0.5 T. The magnetic field is decreased to zero in 0.5 s at a steady rate. The induced emf in the circular loop at 0.25 s is:

Options 1. emf = 5 mV

- $^{2} \cdot \text{emf} = 10 \text{ mV}$
- 3. emf = 1 mV
- 4. emf = 100 mV

Question Type: MCQ

Question ID: 7155051456

Option 1 ID: 7155054384

Option 2 ID: 7155054383

Option 3 ID: 7155054382

Option 4 ID: 7155054381

Status: Answered Chosen Option: 1

Two long straight wires P and Q carrying equal current 10A each were kept parallel to each other at 5 cm distance. Magnitude of magnetic force experienced by 10 cm length of wire P is  $F_1$ . If download goon the distance between wires is halved and currents on them are doubled, force F2 on 10 cm length of wire P will be:

Options

- 2.  $\frac{F_1}{8}$  3. 10  $F_1$
- 4.8 F<sub>1</sub>

Question Type: MCQ

Question ID: 7155051457

Option 1 ID: 7155054388

Option 2 ID: 7155054387

Option 3 ID: 7155054386

Option 4 ID: 7155054385

Status: Not Answered

Q.15 Given below are two statements:

Statement I: An elevator can go up or down with uniform speed when its weight is balanced with the tension of its cable.

Statement II: Force exerted by the floor of an elevator on the foot of a person standing on it is more than his/her weight when the elevator goes down with increasing speed.

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

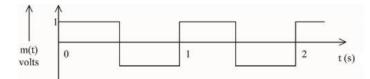
- Statement I is true but Statement II is false
- 3. Both Statement I and Statement II are true
- 4 Both Statement I and Statement II are false

Question Type: MCQ

Question ID: 7155051444 Option 1 ID: 7155054336 Option 2 ID: 7155054335 Option 3 ID: 7155054333 Option 4 ID: 7155054334 Status: Answered

Chosen Option: 3

Q.16 A modulating signal is a square wave, as shown in the figure.



If the carrier wave is given as  $c(t) = 2 \sin(8\pi t)$  volts, the modulation index is: downladd from Chill

Options

1. -4

2. 1

Question Type: MCQ

Question ID: 7155051450

Option 1 ID: 7155054357

Option 2 ID: 7155054358 Option 3 ID: 7155054359

Option 4 ID: 7155054360

Status: Not Answered

Q.17 A travelling wave is described by the equation

$$y(x, t) = [0.05 \sin(8x - 4t)] \text{ m}$$

The velocity of the wave is: [all the quantities are in SI unit]

Options  $_1$ .  $0.5~\mathrm{ms}^{-1}$ 

- 2. 2 ms<sup>-1</sup>
- $^{3.}$  8 ms $^{-1}$
- 4. 4 ms<sup>-1</sup>

Question Type : MCQ

Question ID : 7155051442 Option 1 ID : 7155054327 Option 2 ID : 7155054328 Option 3 ID : 7155054325 Option 4 ID : 7155054326 Status : Answered

Chosen Option : 2

Q.18 A 100 m long wire having cross-sectional area  $6.25 \times 10^{-4}$  m<sup>2</sup> and Young's modulus is  $10^{10}$  Nm<sup>-2</sup> is subjected to a load of 250 N, then the elongation in the wire will be:

Options 1.  $6.25 \times 10^{-6} \text{ m}$ 

- $^{2.}6.25 \times 10^{-3} \text{ m}$
- $^{3.}$  4 × 10 $^{-3}$  m
- $^{4.}$  4 × 10 $^{-4}$  m

Question Type : MCQ

Question ID : 7155051447 Option 1 ID : 7155054345 Option 2 ID : 7155054346 Option 3 ID : 7155054348 Option 4 ID : 7155054347 Status : Answered

Chosen Option: 1

Q.19 1 g of a liquid is converted to pour at 3 × 10<sup>5</sup> Pa pressure. If 10% of the heat supplied is used for increasing the volume by 1000 cm<sup>3</sup> during this phase change, then the increase in internal energy in the process will be:

Options 1.  $4.32 \times 10^8 \text{ J}$ 

- 2. 4800 J
- з. 4320 J
- 4. 432000 J

Question Type: MCQ

Question ID: 7155051448
Option 1 ID: 7155054351
Option 2 ID: 7155054349
Option 3 ID: 7155054352
Option 4 ID: 7155054350
Status: Not Answered

### Q.20 Match List I with List II

	LIST I		LIST II
A.	Planck's constant (h)	I.	$[M^1 L^2 T^{-2}]$
B.	Stopping potential (Vs)	II.	$[M^1 L^1 T^{-1}]$
C.	Work function (Ø)	III.	$[M^1 L^2 T^{-1}]$
D.	Momentum (p)	IV.	$[M^1 L^2 T^{-3} A^{-1}]$

Choose the correct answer from the options given below:

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

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

Question Type : MCQ

Question ID: 7155051441 Option 1 ID: 7155054324 Option 2 ID: 7155054321 Option 3 ID: 7155054322 Option 4 ID: 7155054323

Status : Answered

Chosen Option: 1

Section: Physics Section B

Q.21 2 Kg 000000 Y

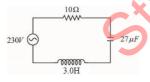
A block of a mass 2 kg is attached with two identical springs of spring constant 20 N/m each. The block is placed on a frictionless surface and the ends of the springs are attached to rigid supports (see figure). When the mass is displaced from its equilibrium position, it executes a simple

harmonic motion. The time period of oscillation is  $\frac{\pi}{\sqrt{x}}$  in SI unit. The value of x is \_\_\_\_\_\_

Given --Answer :

Question Type : **SA**Question ID : **7155051461**Status : **Not Answered** 

Q.22 In the circuit shown in the figure, the ratio of the quality factor and the band width is \_\_\_\_\_\_s.



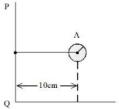
Given --Answer :

Question Type : SA

Question ID : **7155051468** Status : **Not Answered** 

	Vectors $a\hat{i} + b\hat{j} + \hat{k}$ and $2\hat{i} - 3\hat{j} + 4\hat{k}$ are perpendicular to each other when $3a + 2b = 7$ , the ratio			
of a to b is $\frac{x}{2}$ The value of x is				
Given 13 Answer:				
	Question Type : SA			
	Question ID : <b>7155051462</b> Status : <b>Answered</b>			
	Status : Allsweller			
Q.24 A hole is drilled in a metal sheet. At 27°C, the diameter of hole is 5 cm. Wh 177°C, the change in the diameter of hole is d × 10 <sup>-3</sup> cm. The value of d wi coefficient of linear expansion of the metal is 1.6 × 10 <sup>-5</sup> /°C.				
Given <b>12.05</b> Answer:				
	Question Type : SA			
	Question ID : 7155051465 Status : Answered			
	Status : Allswered			
Q.25 Assume that protons and neutrons have equal masses. Mass of a nucleor radius of nucleus is $1.5 \times 10^{-15}$ A <sup>1/3</sup> m. The approximate ratio of the nu	n is $1.6 \times 10^{-27}$ kg and			
density is $n \times 10^{13}$ . The value of $n$ is	elear density and water			
Given Answer:				
Allower .				
	Question Type : SA  Question ID : 7155051466			
	Status : Not Answered			
Q.26 A spherical body of mass 2 kg starting from rest acquires a kinetic energy	of 10000 Jat the end of			
5 <sup>th</sup> second. The force acted on the body isN.	<b>'</b> O'.			
Given 40 Answer:				
	Question Type : SA			
	Question ID : <b>7155051463</b>			
10ade	Status : Answered			
Q.27 As shown in the figure, a combination of a thin plano concave lens and a thrused to image an object placed at infinity. The radius of curvature of both the refraction index of the material for both the lenses is 1.75. Both the lenses at 40 cm from each other. Due to the combination, the image of the object is f	ne lenses is 30 cm and are placed at distance of			
cm, from concave lens.	ormed at distance x =			
40 Cm.				
Given 25 Answer:				
	Question Type : SA			
	Question ID : <b>7155051467</b> Status : <b>Answered</b>			
	Status - Allowered			

Solid sphere A is rotating about an axis PQ. If the radius of the sphere is 5 cm then its radius of gyration about PQ will be  $\sqrt{x}$  cm. The value of x is \_\_\_\_\_\_.



Given --Answer :

Question Type : **SA**Question ID : **7155051464**Status : **Not Answered** 

Q.29 A stream of a positively charged particles having  $\frac{q}{m} = 2 \times 10^{11} \frac{C}{kg}$  and velocity  $\vec{v}_0 = 3 \times 10^7 \hat{i} \, m/s$  is deflected by an electric field  $1.8 \hat{j}$  kV/m. The electric field exists in a region of 10 cm along x

deflected by an electric field 1.8j kV/m. The electric field exists in a region of 10 cm along x direction. Due to the electric field, the deflection of the charge particles in the y direction is \_\_\_\_\_

Given --Answer :

Question Type : SA

Question ID : 7155051470

Status : Not Answered

Q.30 A hollow cylindrical conductor has length of 3.14 m, while its inner and outer diameters are 4 mm and 8 mm respectively. The resistance of the conductor is  $n \times 10^{-3}\Omega$ .

If the resistivity of the material is  $2.4 \times 10^{-8}\Omega$ m. The value of n is \_\_\_\_\_\_

Given **0.05** Answer:

Question Type : **SA**Question ID : **7155051469**Status : **Answered** 

Section: Chemistry Section A

Q.31 The magnetic moment of a transition metal compound has been calculated to be 3.87 B.M. The metal ion is

Options 1.  ${f V}^{2+}$ 

2. Ti<sup>2+</sup>

3. Cr<sup>2+</sup>

4. Mn<sup>2+</sup>

Question Type : MCQ

Question ID: 7155051480 Option 1 ID: 7155054448 Option 2 ID: 7155054447 Option 3 ID: 7155054449 Option 4 ID: 7155054450

Status : **Answered** Chosen Option : **2** 

Assertion A: Hydrolysis of an alkyl chloride is a slow reaction but in the presence of NaI, the rate of the hydrolysis increases.

Reason R: I is a good nucleophile as well as a good leaving group.

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

# Options 1. A is true but R is false

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

3. A is false but R is true

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

Question Type: MCQ

Question ID: 7155051485 Option 1 ID: 7155054469 Option 2 ID: 7155054468

Option 3 ID: 7155054470 Option 4 ID: 7155054467

Status: Answered

Chosen Option: 3

Q.33 'R' formed in the following sequence of reactions is:

$$\frac{\text{NaCN}}{\text{HOAc}} \text{'P'} \xrightarrow{\text{EtOH}} \text{'Q'} \xrightarrow{\text{(i) 2MeMgBr}} \text{'R'}$$

$$\text{major}$$

Options

Question Type : MCQ

Question ID: 7155051488 Option 1 ID: 7155054482

Option 2 ID: 7155054481 Option 3 ID: 7155054479 Option 4 ID: 7155054480

Status: Answered

Q.34 Statement I: For colloidal particles, the values of colligative properties are of small order as compared to values shown by true solutions at same concentration.

**Statement II:** For colloidal particles, the potential difference between the fixed layer and the diffused layer of same charges is called the electrokinetic potential or zeta potential. 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

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

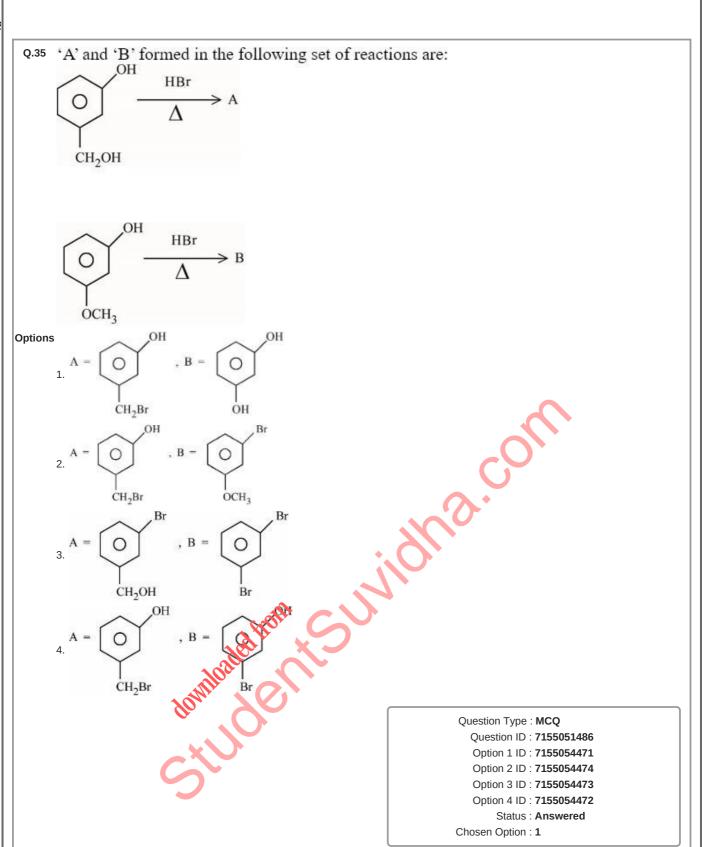
Question Type : MCQ

Question ID: 7155051473
Option 1 ID: 7155054420
Option 2 ID: 7155054421
Option 3 ID: 7155054422
Option 4 ID: 7155054419

Status : Not Answered

Chosen Option: --

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Q.36 Given below are two statements:

Statement I: Noradrenaline is a neurotransmitter.

**Statement II :** Low level of noradrenaline is not the cause of depression in human. In the light of the above statements, choose the correct answer from the options given below

Options 1. Statement I is correct but Statement II is incorrect

- 2. Both Statement I and Statement II are incorrect
- 3. Both Statement I and Statement II are correct
- 4 Statement I is incorrect but Statement II is correct

Question Type : MCQ

Question ID : 7155051490

Option 1 ID : **7155054489** Option 2 ID : **7155054488** 

Option 3 ID : **7155054487** 

Option 4 ID : **7155054490** 

Status: Answered

Chosen Option: 1

Q.37 Reaction of BeO with ammonia and hydrogen fluoride gives A which on thermal decomposition gives BeF<sub>2</sub> and NH<sub>4</sub>F. What is 'A'?

Options 1. (NH<sub>4</sub>)BeF<sub>3</sub>

- 2.  $(NH_4)Be_2F_5$
- 3. H<sub>3</sub>NBeF<sub>3</sub>
- 4. (NH<sub>4</sub>)<sub>2</sub>BeF<sub>4</sub>

Question Type : MCQ

Question ID : 7155051477

Option 1 ID : **7155054435** 

Option 2 ID: 7155054438

Option 3 ID: **7155054437** Option 4 ID: **7155054436** 

Status : **Answered** 

Chosen Option: 1

Q.38 Order of Covalent bond;

A. KF > KI; LiF > KF

B. KF < KI ; LiE KF

C. SnCl<sub>4</sub> > SnC<sub>2</sub>; CuCl > NaCl

D. LiF > KF ; CuCl < NaCl

E. KF < KI ; CuCl > NaCl

Choose the correct answer from the options given below:

Options 1. B, C, E only

2. C, E only

3. B, C only

4. A. B only

Question Type : MCQ

Question ID : 7155051471

Option 1 ID: 7155054414

Option 2 ID : **7155054413** 

Option 3 ID: 7155054412

Option 4 ID: 7155054411

Status : Answered

Q.39 Which of the following is true about freons?

Options 1. All radicals are called freons

- 2. These are chlorofluorocarbon compounds
- 3. These are radicals of chlorine and chlorine monoxide
- 4. These are chemicals causing skin cancer

Question Type: MCQ

Question ID: 7155051481 Option 1 ID: 7155054454 Option 2 ID: 7155054451

Option 3 ID: 7155054452 Option 4 ID: 7155054453 Status: Answered

Chosen Option: 2

Q.40 An ammoniacal metal salt solution gives a brilliant red precipitate on addition of dimethylglyoxime. The metal ion is:

Options 1. Cu<sup>2+</sup>

- $^{2}$ . Fe<sup>2+</sup>
- 3. Ni<sup>2+</sup>
- 4. Co<sup>2+</sup>

Question Type: MCQ

Question ID: 7155051489

Option 1 ID: 7155054486 Option 2 ID: 7155054483

Option 3 ID: 7155054485

Option 4 ID: 7155054484

Status: Answered

Chosen Option: 4

Q.41 Which of the Phosphorus oxoacid can create silver mirror from AgNO $_3$  solution? Options 1.  $H_4P_2O_5$ 2.  $H_4P_2O_7$ 3.  $(HPO_3)_n$ 4.  $H_4P_2O_6$ Question Question

Options 1.  $H_4P_2O_5$ 

Question Type: MCQ

Question ID: 7155051479

Option 1 ID: 7155054443

Option 2 ID: 7155054446

Option 3 ID: 7155054444

Option 4 ID: 7155054445

Status: Not Answered

### Q.42 Match List I with List II

	LIST I		LIST II
A.	Chlorophyll	I.	Na <sub>2</sub> CO <sub>3</sub>
B.	Soda ash	II.	CaSO <sub>4</sub>
C.	Dentistry, Ornamental work	III.	Mg <sup>2+</sup>
D.	Used in white washing	IV.	Ca(OH) <sub>2</sub>

Choose the correct answer from the options given below:

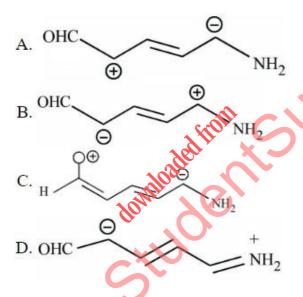
Options 1. A-III, B-IV, C-I, D-II

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

Question Type: MCQ
Question ID: 7155051478
Option 1 ID: 7155054441
Option 2 ID: 7155054440
Option 3 ID: 7155054442
Option 4 ID: 7155054439
Status: Answered

Chosen Option: 1

Q.43 Increasing order of stability of the resonance structures is:



Choose the correct answer from the options given below:

Options 1. C. D. B. A

- 2. D, C, A, B
- 3. D, C, B, A
- 4. C, D, A, B

Question Type : MCQ

Question ID: 7155051483

Option 1 ID : 7155054460

Option 2 ID: 7155054462

Option 3 ID : **7155054459** 

Option 4 ID : **7155054461** 

Status: Not Answered

# Q.44 Match List I with List II

LIST I			LIST II	
A.	Reverberatory furnace	I.	Pig Iron	
B.	Electrolytic cell	II.	Aluminum	
C.	Blast furnace	III.	Silicon	
D.	Zone Refining furnace	IV.	Copper	

Choose the correct answer from the options given below:

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

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

Question Type: MCQ

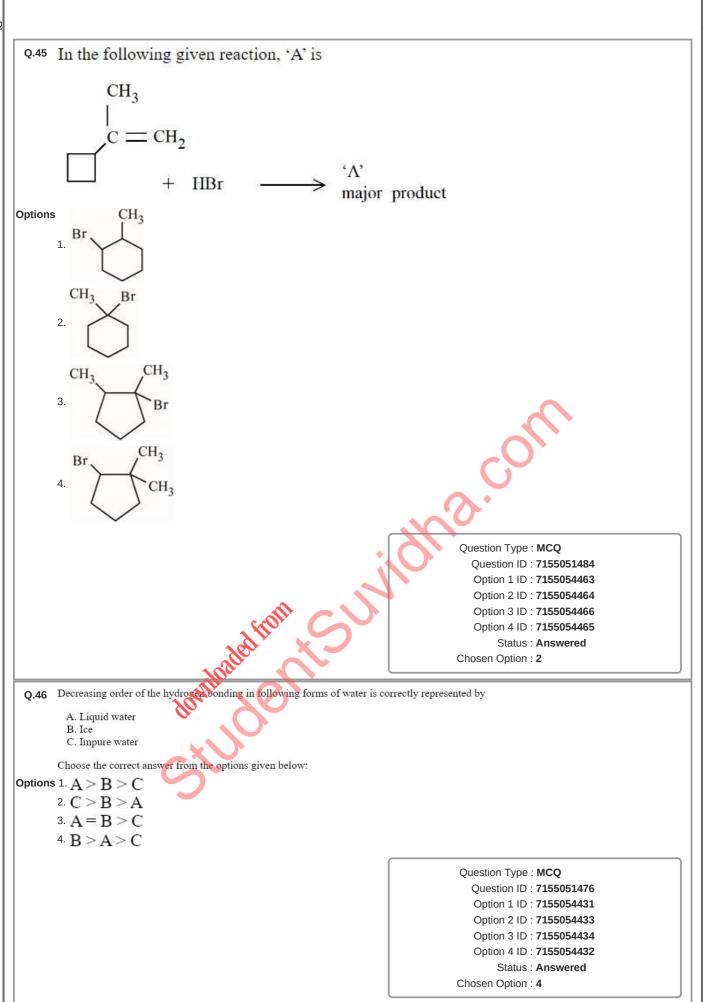
Question ID: 7155051475 Option 1 ID: 7155054428 Option 2 ID: 7155054429 Option 3 ID: 7155054427

Option 4 ID: 7155054430

Status: Answered

Chosen Option: 1

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### Q.49 In the depression of freezing point experiment

- A. Vapour pressure of the solution is less than that of pure solvent
- B. Vapour pressure of the solution is more than that of pure solvent
- C. Only solute molecules solidify at the freezing point
- D. Only solvent molecules solidify at the freezing point

Choose the most appropriate answer from the options given below:

# Options 1. A and D only

- 2. A and C only
- 3. A only
- 4. B and C only

Question Type : MCQ

Question ID : 7155051472 Option 1 ID : 7155054418 Option 2 ID : 7155054416 Option 3 ID : 7155054415 Option 4 ID : 7155054417 Status : Answered

Chosen Option: 3

Q.50 Compound (X) undergoes following sequence of reactions to give the Lactone (Y).

Compound (X) 
$$(ii)$$
 HCHO, KOH  $(iii)$  KCN(alc)  $(iii)$  H<sub>3</sub>O<sup>+</sup>  $(iii)$  H<sub>3</sub>C  $(iii)$  H<sub>3</sub>C  $(iii)$  Lactone (Y)

Compound (X) is

Options

$$CH_3$$
 $H_2C - CH_2 - CH_2 - CH_2 - CH_2$ 

Question Type : MCQ

Question ID: 7155051487 Option 1 ID: 7155054475 Option 2 ID: 7155054478 Option 3 ID: 7155054476 Option 4 ID: 7155054477 Status: Not Answered

Chosen Option : --

Section: Chemistry Section B

Q.51 Number of moles of AgCl formed in the following reaction is \_\_\_\_\_

$$CI \longrightarrow CI \longrightarrow AgNO_3 \longrightarrow (A) + X AgCI \downarrow$$

Given --Answer :

Question Type : **SA**Question ID : **7155051500**Status : **Not Answered** 

Q.52 5 g of NaOH was dissolved in deionized water to prepare a 450 mL stock solution. What volume (in mL) of this solution would be required to prepare 500 mL of 0.1 M solution?

Given: Molar Mass of Na, O and H is 23, 16 and 1 g mol-1 respectively

Given --Answer :

Question Type : **SA**Question ID : **7155051491**Status : **Not Answered** 

Q.53 The number of correct statement/s from the following is \_\_\_\_\_

- A. Larger the activation energy, smaller is the value of the rate constant.
- B. The higher is the activation energy, higher is the value of the temperature coefficient.
- C. At lower temperatures, increase in temperature causes more change in the value of k than at higher temperature
- D. A plot of  $\ln k$  vs  $\frac{1}{T}$  is a straight line with slope equal to  $-\frac{E_a}{R}$

Given 2 Answer:

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Question Type : **SA**Question ID : **7155051497**Status : **Answered** 

Q.54 At 298 K, a 1 litre solution containing 10 mmol of Cr<sub>2</sub>O<sub>7</sub><sup>2-</sup> and 100 mmol of Cr<sup>3+</sup> shows a pH of 3.0.

Given:  $Cr_2O_7^{2-} \rightarrow Cr^{3+}$ ; E = 1.330Vand 2.303 RT = 0.059 V

The potential for the half cell reaction is  $x \times 10^{-3}$  V. The value of x is

Given --Answer :

Question Type : SA

Question ID : 7155051496

Status : Not Answered

Q.55 Uracil is a base present in RNA with the following structure. % of N in uracil is \_\_\_\_

		0		
ſ	1		\	NH
l	_	-N-		0
		Ï		
		H		

Given:

Molar mass  $N = 14 \text{ g mol}^{-1}$ 

 $O = 16 \text{ g mol}^{-1}$ 

 $C = 12 \text{ g mol}^{-1}$ 

 $H = 1 \text{ g mol}^{-1}$ 

Given 25 Answer:

Question Type : SA

Question ID : **7155051499** Status : **Answered** 

Q.56 The dissociation constant of acetic acid is  $x \times 10^{-5}$ . When 25 mL of 0.2 M CH<sub>3</sub>COONa solution is mixed with 25 mL of 0.02 M CH<sub>3</sub>COOH solution, the pH of the resultant solution is found to be equal to 5. The value of x is \_\_\_\_\_

Given --Answer :

Question Type : SA

Question ID : 7155051495 Status : Not Answered

Q.57 For independent processes at 300 K

Process	∆H/kJ mol <sup>-1</sup>	$\Delta S/J K^{-1}$
A	-25	-80
В	-22	40
С	25	-50
D	22	20

The number of non-spontaneous processes from the following is \_\_\_\_\_

Given 2 Answer:

Question Type : SA

Question ID : **7155051494**Status : **Answered** 

- Q.58 When Fe<sub>0.93</sub>O is heated in presence of oxygen, it converts to Fe<sub>2</sub>O<sub>3</sub>. The number of **correct** statement/s from the following is \_\_\_\_\_
  - A. The equivalent weight of  $Fe_{0.93}O$  is Molecular weight

0.79

- B. The number of moles of Fe<sup>2+</sup> and Fe<sup>3+</sup> in 1 mole of Fe<sub>0.93</sub>O is 0.79 and 0.14 respectively
- C. Fe<sub>0.93</sub>O is metal deficient with lattice comprising of cubic closed packed arrangement of O<sup>2-</sup>
- D. The % composition of  $\mathrm{Fe^{2+}}$  and  $\mathrm{Fe^{3+}}$  in  $\mathrm{Fe_{0.93}O}$  is 85% and 15% respectively

Given --Answer :

Question Type : **SA**Question ID : **7155051492**Status : **Not Answered** 

Q.59 If wavelength of the first line of the Paschen series of hydrogen atom is 720 nm, then the wavelength of the second line of this series is \_\_\_\_\_ nm. (Nearest integer)

Given **5832** Answer:

Question Type : **SA**Question ID : **7155051493**Status : **Answered** 

Q.60 The d-electronic configuration of [CoCl<sub>4</sub>]<sup>2-</sup> in tetrahedral crystal field is e<sup>m</sup> t<sub>2</sub><sup>n</sup>. Sum of "m" and "number of unpaired electrons" is \_\_\_\_\_

Given 4 Answer:

Question Type : **SA**Question ID : **7155051498**Status : **Answered** 

Section: Mathematics Section A

Q.61 The value of  $\sum_{r=0}^{22} {}^{22}C_r {}^{23}C_r$  is

Options  $_{1.}$   $^{44}C_{23}$ 

- 2.  $^{44}C_{22}$
- 3.  $^{45}C_{23}$
- 4.  $^{45}C_{24}$

Question Type : MCQ

Question ID : 7155051509
Option 1 ID : 7155054534
Option 2 ID : 7155054533
Option 3 ID : 7155054535
Option 4 ID : 7155054536
Status : Answered

Chosen Option: 3

Q.62

Let 
$$f(x) = \begin{cases} x^2 \sin(\frac{1}{x}), & x \neq 0 \\ 0, & x = 0 \end{cases}$$

Then at x = 0

Options 1. f' is continuous but not differentiable

- 2. f and f' both are continuous
- 3. f is continuous but f' is not continuous
- 4. f is continuous but not differentiable

Question Type : MCQ

Question ID : **7155051513**Option 1 ID : **7155054550**Option 2 ID : **7155054551**Option 3 ID : **7155054552**Option 4 ID : **7155054549**Status : **Answered** 

Q.63 Let y = y(x) be the solution of the differential equation  $x^3 dy + (xy - 1) dx = 0$ , x > 0,

$$y\left(\frac{1}{2}\right) = 3 - e$$
. Then y (1) is equal to

Options 1. e

- 2. 1
- 3.2 e
- 4. 3

Question Type: MCQ

Question ID: 7155051508

Option 1 ID: 7155054530

Option 2 ID: 7155054532

Option 3 ID: 7155054529 Option 4 ID: 7155054531

Status: Not Answered

Chosen Option: --

Q.64 The compound statement  $(\neg (P \land Q)) \lor ((\neg P) \land Q) \Rightarrow ((\neg P) \land (\neg Q))$  is equivalent to

Options 1.  $(\sim Q)_{\vee} P$ 

- 2.  $((\sim P) \lor Q) \land ((\sim Q) \lor P)$
- 3. (~P)∨Q
- 4.  $((\sim P) \lor Q) \land (\sim Q)$

Question Type : MCQ

Question ID: 7155051520

Option 1 ID: 7155054579

Option 2 ID: 7155054580

Option 3 ID: 7155054578

Option 4 ID: 7155054577

Status: Not Answered Chosen Option: --

Q.65 Let  $\alpha$  be a root of the equation  $(a + b)^2 + (b-a)x + (c-b) = 0$ 

where a, b, c are distinct representations and the matrix  $\begin{bmatrix} \alpha^2 & \alpha & 1 \\ 1 & 1 & 1 \\ a & b & c \end{bmatrix}$ 

is singular. Then, the value of  $\frac{(a-c)^2}{(b-a)(c-b)} + \frac{(b-a)^2}{(a-c)(c-b)} + \frac{(c-b)^2}{(a-c)(b-a)}$  is

Options 1. 9

- 2. 3
- 3. 6
- 4.12

Question Type : MCQ

Question ID: 7155051506

Option 1 ID: 7155054523

Option 2 ID: 7155054521

Option 3 ID: 7155054522

Option 4 ID: 7155054524

Status: Not Answered

Q.66 The relation  $R = \{(a,b): \gcd(a,b) = 1, 2a \neq b, a, b \in \mathbb{Z} \}$  is:

Options 1. reflexive but not symmetric

- 2. neither symmetric nor transitive
- 3. symmetric but not transitive
- 4 transitive but not reflexive

Question Type : MCQ

Question ID: 7155051502 Option 1 ID: 7155054505 Option 2 ID: 7155054508 Option 3 ID: 7155054506 Option 4 ID: 7155054507

Status: Answered

Chosen Option: 2

Q.67 Let  $\Omega$  be the sample space and  $A \subseteq \Omega$  be an event.

Given below are two statements:

(S1): If P(A) = 0, then  $A = \emptyset$ 

(S2): If P(A) = 1, then  $A = \Omega$ 

Then

Options 1. both (S1) and (S2) are false

- 2. only (S1) is true
- both (S1) and (S2) are true
- 4 only (S2) is true

Question Type: MCQ

Question ID: 7155051519 Option 1 ID: 7155054574 Option 2 ID: 7155054575 Option 3 ID: 7155054573

Option 4 ID: 7155054576 Status: Not Answered

Chosen Option: --

downloaded from Q.68 The distance of the point (7, -3, -4) from the plane passing through the points (2, -3, 1), (-1, 1, -2)and (3, -4, 2) is:

Options 1.  $4\sqrt{2}$ 

2. 5

3.  $5\sqrt{2}$ 

4. 4

Question Type: MCQ

Question ID: 7155051511 Option 1 ID: 7155054543 Option 2 ID: 7155054542

Option 3 ID: 7155054544 Option 4 ID: 7155054541 Status: Not Answered

**Q.69** The distance of the point (-1, 9, -16) from the plane 2x + 3y - z = 5 measured parallel to the line

$$\frac{x+4}{3} = \frac{2-y}{4} = \frac{z-3}{12}$$
 is

Options 1.  $20\sqrt{2}$ 

- 2.31
- 3.26
- 4.  $13\sqrt{2}$

Question Type :  $\boldsymbol{\mathsf{MCQ}}$ 

Question ID: 7155051516 Option 1 ID: 7155054562 Option 2 ID: 7155054564 Option 3 ID: 7155054563 Option 4 ID: 7155054561

Status: Not Answered

Chosen Option: --

Q.70 Let  $\vec{u} = \hat{i} - \hat{j} - 2\hat{k}$ ,  $\vec{v} = 2\hat{i} + \hat{j} - \hat{k}$ ,  $\vec{v} \cdot \vec{w} = 2$  and  $\vec{v} \times \vec{w} = \vec{u} + \lambda \vec{v}$ . Then  $\vec{u} \cdot \vec{w}$  is equal to

Options 1.

Question Type : MCQ

Question ID: 7155051517 Option 1 ID: 7155054567 Option 2 ID: 7155054566

Option 3 ID: 7155054565 Option 4 ID: 7155054568 Status: Answered

Chosen Option: 4

Let PQR be a triangle. The points A,  $\overrightarrow{B}$  and  $\overrightarrow{C}$  are on the sides QR, RP and PQ respectively such that  $\frac{QA}{AR} = \frac{RB}{BP} = \frac{PC}{CQ} = \frac{1}{2}$ . Then  $A(\Delta ABC)$  is equal to Q.71

Options 1. 4

- 2. 2

Question Type : MCQ

Question ID: 7155051518 Option 1 ID: 7155054572 Option 2 ID: 7155054569 Option 3 ID: 7155054570

Option 4 ID: 7155054571 Status: Answered

**Q.72** The equation  $x^2 - 4x + [x] + 3 = x[x]$ , where [x] denotes the greatest integer function, has:

Options 1. a unique solution in  $(-\infty, \infty)$ 

- 2. exactly two solutions in  $(-\infty, \infty)$
- 3. a unique solution in  $(-\infty, 1)$
- 4. no solution

Question Type: MCQ

Question ID: 7155051501 Option 1 ID: 7155054502 Option 2 ID: 7155054501 Option 3 ID: 7155054503 Option 4 ID: 7155054504

Status: Not Answered

Chosen Option : --

Q.73 Let N denote the number that turns up when a fair die is rolled. If the probability that the system of equations

$$x + y + z = 1$$

$$2x + Ny + 2z = 2$$

$$3x + 3y + Nz = 3$$

has unique solution is  $\frac{k}{6}$ , then the sum of value of k and all possible values of N is

Options 1. 21

- 2.19
- 3.18
- 4.20

Question Type: MCQ

Question ID: **7155051504**Option 1 ID: **7155054513**Option 2 ID: **7155054515**Option 3 ID: **7155054514**Option 4 ID: **7155054516** 

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

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Q.74

$$\tan^{-1}\left(\frac{1+\sqrt{3}}{3+\sqrt{3}}\right) + \sin^{-1}\left(\sqrt{\frac{8+4\sqrt{3}}{6+3\sqrt{3}}}\right)$$
 is equal to

Options

- 1.  $\frac{\pi}{3}$
- 2.  $\frac{\pi}{6}$
- 3.  $\frac{\pi}{4}$
- 4.  $\frac{\pi}{2}$

Question Type : MCQ

Question ID : Option 1 ID : Option 2 ID : Option 3 ID :

Option 4 ID : **7155054525** Status : **Answered** 

Q.75 If A and B are two non-zero n  $\times$  n matrics such that  $A^2 + B = A^2 B$ , then

Options 1.  $A^2B = BA^2$ 

- 2. AB = I
- $^{3.} A^{2}B = I$
- <sup>4.</sup>  $A^2 = I$  or B = I

Question Type: MCQ

Question ID : **7155051505** 

Option 1 ID: **7155054519** 

Option 2 ID : **7155054520** 

Option 3 ID: **7155054517** Option 4 ID: **7155054518** 

Status: Not Answered

Chosen Option: --

Q.76 The area enclosed by the curves  $y^2 + 4x = 4$  and y - 2x = 2 is:

Options 1.  $\frac{2}{3}$ 

- 2.  $\frac{22}{3}$
- 3.  $\frac{23}{3}$
- 4. 9

Question Type : MCQ

Question ID : **7155051515** 

Option 1 ID: 7155054560

Option 2 ID: 7155054557

Option 3 ID : **7155054558** Option 4 ID : **7155054559** 

Status: Not Answered

Chosen Option: --

Q.77 Let a tangent to the curve  $y^2 = 24x$  meet the curve xy = 2 at the points A and B. Then the mid points of such line segments AB than a parabola with the

Options 1. directrix 4x = -3

- 2. length of latus rectum
- 3. directrix 4x = 3
- 4. length of latus rectum 2

Question Type : MCQ

Question ID: 7155051510

Option 1 ID: 7155054537

Option 2 ID: 7155054539

Option 3 ID : **7155054538** 

Option 4 ID: **7155054540** 

Status: Answered

$$\lim_{t \to 0} \left( 1^{\frac{1}{\sin^2 t}} + 2^{\frac{1}{\sin^2 t}} + ... + n^{\frac{1}{\sin^2 t}} \right)^{\sin^2 t}$$
 is equal to

Options 1. 
$$\frac{n(n+1)}{2}$$

$$^{2.} n^{2}$$

$$^{3.}$$
  $n^2 + n$ 

Question Type: MCQ

Question ID: 7155051514

Option 1 ID: 7155054553

Option 2 ID: 7155054555

Option 3 ID: 7155054554 Option 4 ID: 7155054556

Status: Answered

Chosen Option: 1

**Q.79** For three positive integers p, q, r, 
$$x^{pq^2} = y^{qr} = z^{p^2r}$$
 and  $r = pq + 1$  such that 3,  $3 \log_y x$ ,  $3\log_z y$ ,

 $7\log_X z$  are in A.P. with common difference  $\frac{1}{2}$ . Then r-p-q is equal to

Options 1. 2

$$2. - 6$$

Question Type : MCQ

Question ID: 7155051512

Option 1 ID: 7155054545

Option 2 ID: 7155054547

Option 3 ID: 7155054548

Option 4 ID: 7155054546 Status: Not Answered

Chosen Option: --

Chose Q.80 Let p, 
$$q \in \mathbb{R}$$
 and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  Let p,  $q \in \mathbb{R}$  and  $(1-\sqrt{3}i)^{200} = 2^{199}$  Let p,  $q \in \mathbb{R}$  Let p,  $q \in \mathbb{$ 

Options 1. 
$$x^2 - 4x - 1 = 0$$

$$x^{2} + 4x - 1 = 0$$
3.  $x^{2} - 4x + 1 = 0$ 

3. 
$$x^2 - 4x + 1 = 0$$

$$4x^2 + 4x + 1 = 0$$

Question Type: MCQ

Question ID: 7155051503

Option 1 ID: 7155054510

Option 2 ID: 7155054511

Option 3 ID: 7155054512

Option 4 ID: 7155054509

Status: Not Answered

Chosen Option: --

Section: Mathematics Section B

The value of $\frac{8}{\pi} \int_{0}^{\frac{\pi}{2}} \frac{(\cos x)^{2023}}{(\sin x)^{2023} + (\cos x)^{2023}} dx$ is	
Given Answer :	
	Question Type : <b>SA</b> Question ID : <b>7155051528</b> Status : <b>Not Answered</b>
Q.82 Let a tangent to the curve $9x^2+16y^2=144$ intersect the coordinate axes at the the minimum length of the line segment AB is  Given Answer:	e points A and B. Then,
	Question Type : <b>SA</b> Question ID : <b>7155051521</b> Status : <b>Not Answered</b>
Q.83 The value of $12 \int_{0}^{3}  x^2 - 3x + 2  dx$ is	
Given Answer :	Question Type : SA Question ID : 7155051527 Status : Not Answered
Q.84 A boy needs to select five courses from 12 available courses, out of which courses. If he can choose at most two language courses, then the number of five courses is	
Answer:	Question Type : <b>SA</b> Question ID : <b>7155051525</b> Status : <b>Answered</b>
Q.85 The number of 9 digit numbers, that can be formed using all the digits of the that the even digits occupy only even places, is  Given 2880  Answer:	number 123412341 so
	Question Type : <b>SA</b> Question ID : <b>7155051522</b> Status : <b>Answered</b>
<b>Q.86</b> Let $\lambda \in \mathbb{R}$ and let the equation E be $ x ^2 - 2 x  +  \lambda - 3  = 0$ . Then the largest $\{x + \lambda : x \text{ is an integer solution of E}\}$ is	element in the set S =
Answer:	Question Type : <b>SA</b> Question ID : <b>7155051526</b> Status : <b>Not Answered</b>

Q.87	The 4 <sup>th</sup> term of GP is 500 and its common ratio is $\frac{1}{m}$ , $m \in \mathbb{N}$ . Let $S_n$ denote the sum of the first n			
	terms of this GP. If $S_6 > S_5 + 1$ and $S_7 < S_6 + \frac{1}{2}$ , then the number of possible terms of this GP.	ole values of m is		
Give Answer				
		Question Type : <b>SA</b>		
		Question ID : 7155051523		
	l	Status : Not Answered		
Q.88	Suppose $\sum_{r=0}^{2023} r^{2}  {}^{2023}C_r = 2023 \times \alpha \times 2^{2022}$ . Then the value of	α is		
Give Answer				
		Question Type : <b>SA</b>		
		Question ID : <b>7155051524</b>		
		Status : Not Answered		
Q.89	Let C be the largest circle centred at (2,0) and inscribed in the ellipse $\frac{x^2}{36} + \frac{y^2}{16} = 1$ .			
	If $(1, \alpha)$ lies on C, then $10 \alpha^2$ is equal to			
Give Answer	n			
		Question Type : SA		
		Question ID : <b>7155051529</b>		
	•	Status : Not Answered		
Q.90	The shortest distance between the lines $\frac{x-2}{3} = \frac{y+1}{2} = \frac{z-6}{2}$ and $\frac{x-6}{3} = \frac{1}{3}$	$\frac{-y}{2} = \frac{z+8}{0}$ is equal to		
Give Answer				
	103de	Question Type : <b>SA</b>		
		Question ID : <b>7155051530</b>		
	10× 7K	Status : Not Answered		