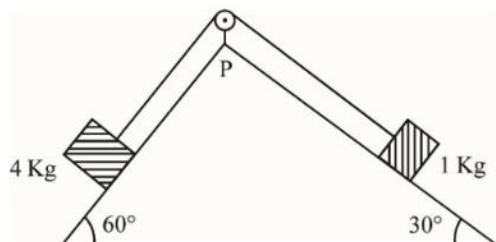


JEE 2023 Session-1 24th Jan to 1st Feb 2023

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

Section : Physics Section A

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

Question Type : MCQ

Question ID : 7155051445

Option 1 ID : 7155054337

Option 2 ID : 7155054338

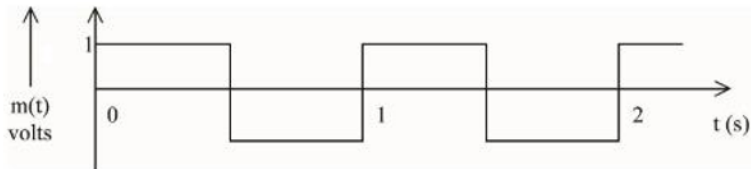
Option 3 ID : 7155054339

Option 4 ID : 7155054340

Status : Not Answered

Chosen Option : --

Q.2 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:

- Options
1. $\frac{1}{4}$
 2. $\frac{1}{2}$
 3. $\frac{1}{3}$
 4. 1

Question Type : **MCQ**

Question ID : **7155051450**

Option 1 ID : **7155054357**

Option 2 ID : **7155054359**

Option 3 ID : **7155054360**

Option 4 ID : **7155054358**

Status : **Not Answered**

Chosen Option : --

Q.3 If two charges q_1 and q_2 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 force?

- Options
1. $2d\sqrt{k}$
 2. $1.5d\sqrt{k}$
 3. $k\sqrt{d}$
 4. $d\sqrt{k}$

Question Type : **MCQ**

Question ID : **7155051460**

Option 1 ID : **7155054399**

Option 2 ID : **7155054398**

Option 3 ID : **7155054400**

Option 4 ID : **7155054397**

Status : **Answered**

Chosen Option : **4**

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

Question Type : **MCQ**

Question ID : **7155051453**

Option 1 ID : **7155054370**

Option 2 ID : **7155054372**

Option 3 ID : **7155054371**

Option 4 ID : **7155054369**

Status : **Not Answered**

Chosen Option : --

Q.5 1 g of a liquid is converted to vapour at 3×10^5 Pa pressure . If 10% of the heat supplied is used for increasing the volume by 1600 cm^3 during this phase change, then the increase in internal energy in the process will be:

- Options**
- 1. 432000 J
 - 2. 4800 J
 - 3. 4.32×10^8 J
 - 4. 4320 J

Question Type : **MCQ**

Question ID : **7155051448**

Option 1 ID : **7155054350**

Option 2 ID : **7155054349**

Option 3 ID : **7155054351**

Option 4 ID : **7155054352**

Status : **Not Answered**

Chosen Option : --

Q.6 Given below are two statements :

Statement I : If the Brewster's angle for the light propagating from air to glass is θ_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 μ_g is the refractive index of glass.

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

Question Type : **MCQ**

Question ID : **7155051454**

Option 1 ID : **7155054374**

Option 2 ID : **7155054376**

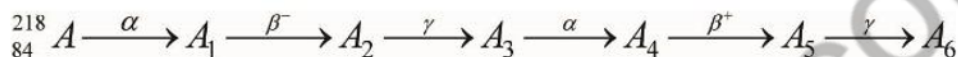
Option 3 ID : **7155054373**

Option 4 ID : **7155054375**

Status : **Not Answered**

Chosen Option : --

Q.7 Consider the following radioactive decay process



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

- Options**
1. 210 and 82
 2. 211 and 80
 3. 210 and 80
 4. 210 and 84

Question Type : **MCQ**

Question ID : **7155051452**

Option 1 ID : **7155054365**

Option 2 ID : **7155054368**

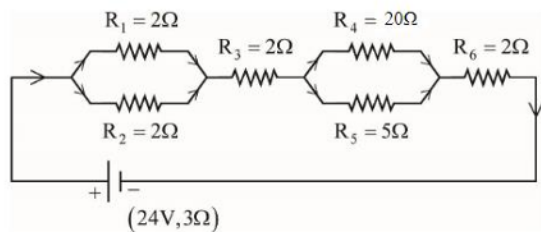
Option 3 ID : **7155054366**

Option 4 ID : **7155054367**

Status : **Not Answered**

Chosen Option : --

- Q.8** 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_4 and R_5 are I_4 and I_5 respectively. The values of I_4 and I_5 are:



- Options**
1. $I_4 = \frac{6}{5} \text{ A}$ and $I_5 = \frac{24}{5} \text{ A}$
 2. $I_4 = \frac{8}{5} \text{ A}$ and $I_5 = \frac{2}{5} \text{ A}$
 3. $I_4 = \frac{2}{5} \text{ A}$ and $I_5 = \frac{8}{5} \text{ A}$
 4. $I_4 = \frac{24}{5} \text{ A}$ and $I_5 = \frac{6}{5} \text{ A}$

Question Type : **MCQ**

Question ID : **7155051459**

Option 1 ID : **7155054395**

Option 2 ID : **7155054394**

Option 3 ID : **7155054393**

Option 4 ID : **7155054396**

Status : **Answered**

Chosen Option : **3**

- Q.9** A conducting circular loop of radius $\frac{10}{\sqrt{\pi}} \text{ cm}$ is placed perpendicular to a uniform magnetic field of 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 = 10 mV**
 2. **emf = 1 mV**
 3. **emf = 5 mV**
 4. **emf = 100 mV**

Question Type : **MCQ**

Question ID : **7155051456**

Option 1 ID : **7155054383**

Option 2 ID : **7155054382**

Option 3 ID : **7155054384**

Option 4 ID : **7155054381**

Status : **Answered**

Chosen Option : **1**

Q.10 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 distance between wires is halved and currents on them are doubled, force F_2 on 10 cm length of wire P will be:

Options 1. $10 F_1$

2. $\frac{F_1}{8}$

3. $8 F_1$

4. $\frac{F_1}{10}$

Question Type : **MCQ**

Question ID : **7155051457**

Option 1 ID : **7155054386**

Option 2 ID : **7155054387**

Option 3 ID : **7155054385**

Option 4 ID : **7155054388**

Status : **Answered**

Chosen Option : **3**

Q.11 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. 2 ms^{-1}

2. 8 ms^{-1}

3. 0.5 ms^{-1}

4. 4 ms^{-1}

Question Type : **MCQ**

Question ID : **7155051442**

Option 1 ID : **7155054328**

Option 2 ID : **7155054325**

Option 3 ID : **7155054327**

Option 4 ID : **7155054326**

Status : **Not Answered**

Chosen Option : **--**

Q.12 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. **68 m**

2. **272 m**

3. **192 m**

4. **136 m**

Question Type : **MCQ**

Question ID : **7155051443**

Option 1 ID : **7155054330**

Option 2 ID : **7155054331**

Option 3 ID : **7155054332**

Option 4 ID : **7155054329**

Status : **Not Answered**

Chosen Option : **--**

Q.13 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. 4.9 N
 2. 8 N
 3. 19.6 N
 4. 9.8 N

Question Type : **MCQ**

Question ID : **7155051446**

Option 1 ID : **7155054341**

Option 2 ID : **7155054343**

Option 3 ID : **7155054342**

Option 4 ID : **7155054344**

Status : **Not Answered**

Chosen Option : --

Q.14 Given below are two statements : one is labelled as **Assertion A** and the other is labelled as **Reason R**

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. Both **A** and **R** are true but **R** is **NOT** the correct explanation of **A**
 2. Both **A** and **R** are true and **R** is the correct explanation of **A**
 3. **A** is false but **R** is true
 4. **A** is true but **R** is false

Question Type : **MCQ**

Question ID : **7155051451**

Option 1 ID : **7155054362**

Option 2 ID : **7155054361**

Option 3 ID : **7155054364**

Option 4 ID : **7155054363**

Status : **Not Answered**

Chosen Option : --

Q.15 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 (ϕ)	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-I, C-II, D-IV
 2. A-III, B-IV, C-I, D-II
 3. A-II, B-IV, C-III, D-I
 4. A-I, B-III, C-IV, D-II

Question Type : MCQ

Question ID : 7155051441

Option 1 ID : 7155054323

Option 2 ID : 7155054324

Option 3 ID : 7155054322

Option 4 ID : 7155054321

Status : Not Answered

Chosen Option : --

Q.16 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. $3\sqrt{2} : 2$
 2. $1 : 3\sqrt{2}$
 3. $2\sqrt{2} : 1$
 4. $1 : \sqrt{2}$

Question Type : MCQ

Question ID : 7155051458

Option 1 ID : 7155054392

Option 2 ID : 7155054389

Option 3 ID : 7155054390

Option 4 ID : 7155054391

Status : Answered

Chosen Option : 3

Q.17 Given below are two statements :

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
 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 : **MCQ**

Question ID : **7155051449**

Option 1 ID : **7155054355**

Option 2 ID : **7155054354**

Option 3 ID : **7155054353**

Option 4 ID : **7155054356**

Status : **Not Answered**

Chosen Option : --

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

- Options**
1. $4 \times 10^{-4} \text{ m}$
 2. $4 \times 10^{-3} \text{ m}$
 3. $6.25 \times 10^{-6} \text{ m}$
 4. $6.25 \times 10^{-3} \text{ m}$

Question Type : **MCQ**

Question ID : **7155051447**

Option 1 ID : **7155054347**

Option 2 ID : **7155054348**

Option 3 ID : **7155054345**

Option 4 ID : **7155054346**

Status : **Not Answered**

Chosen Option : --

Q.19 In $\vec{E}$ and $\vec{K}$ represent electric field and propagation vectors of the EM waves in vacuum, then magnetic field vector is given by:

(ω - angular frequency):

- Options**
1. $\omega(\vec{K} \times \vec{E})$
 2. $\omega(\vec{E} \times \vec{K})$
 3. $\frac{1}{\omega}(\vec{K} \times \vec{E})$
 4. $\vec{K} \times \vec{E}$

Question Type : **MCQ**

Question ID : **7155051455**

Option 1 ID : **7155054377**

Option 2 ID : **7155054378**

Option 3 ID : **7155054380**

Option 4 ID : **7155054379**

Status : **Not Answered**

Chosen Option : --

Q.20 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. 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 : **7155051444**

Option 1 ID : **7155054334**

Option 2 ID : **7155054335**

Option 3 ID : **7155054336**

Option 4 ID : **7155054333**

Status : **Not Answered**

Chosen Option : --

Section : **Physics Section B**

Q.21 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 _____.

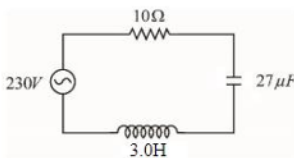
Given 1
Answer :

Question Type : **SA**

Question ID : **7155051462**

Status : **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**

Q.23 A spherical body of mass 2 kg starting from rest acquires a kinetic energy of 10000 J at the end of 5th second. The force acted on the body is _____ N.

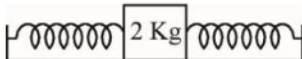
Given --
Answer :

Question Type : **SA**

Question ID : **7155051463**

Status : **Not Answered**

Q.24



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 :

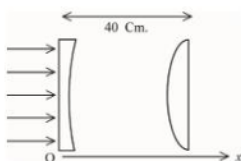
Question Type : SA

Question ID : 7155051461

Status : Not Answered

Q.25

As shown in the figure, a combination of a thin plano concave lens and a thin plano convex lens is used to image an object placed at infinity. The radius of curvature of both the lenses is 30 cm and refraction index of the material for both the lenses is 1.75. Both the lenses are placed at distance of 40 cm from each other. Due to the combination, the image of the object is formed at distance $x =$ _____ cm, from concave lens.



Given --

Answer :

Question Type : SA

Question ID : 7155051467

Status : Not Answered

Q.26

A hole is drilled in a metal sheet. At 27°C , the diameter of hole is 5 cm. When the sheet is heated to 177°C , the change in the diameter of hole is $d \times 10^{-3}$ cm. The value of d will be _____ if coefficient of linear expansion of the metal is $1.6 \times 10^{-5}/^\circ\text{C}$.

Given --

Answer :

Question Type : SA

Question ID : 7155051465

Status : Not Answered

Q.27

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 $2.4 \times 10^{-8}\Omega\text{m}$. The value of n is _____.

Given 2

Answer :

Question Type : SA

Question ID : 7155051469

Status : Answered

Q.28

Assume that protons and neutrons have equal masses. Mass of a nucleon is 1.6×10^{-27} kg and radius of nucleus is $1.5 \times 10^{-15} A^{1/3}$ m. The approximate ratio of the nuclear density and water density is $n \times 10^{13}$. The value of n is _____.

Given --

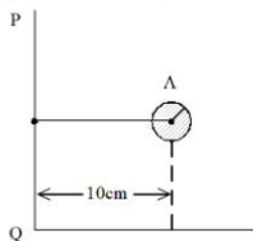
Answer :

Question Type : SA

Question ID : 7155051466

Status : Not Answered

Q.29 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.30 A stream of a positively charged particles having $\frac{q}{m} = 2 \times 10^{11} \frac{C}{kg}$ and velocity $\vec{v}_0 = 3 \times 10^7 \hat{i} \text{ m/s}$ is deflected by an electric field $1.8 \hat{j} \text{ kV/m}$. 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 _____ mm.

Given --
Answer :

Question Type : SA

Question ID : 7155051470

Status : Not Answered

Section : Chemistry Section A

Q.31 Decreasing order of the hydrogen bonding in following forms of water is correctly represented by

- A. Liquid water
- B. Ice
- C. Impure water

Choose the correct answer from the options given below:

- Options 1. $A > B > C$
 2. $C > B > A$
 3. $B > A > C$
 4. $A = B > C$

Question Type : MCQ

Question ID : 7155051476

Option 1 ID : 7155054431

Option 2 ID : 7155054433

Option 3 ID : 7155054432

Option 4 ID : 7155054434

Status : Not Answered

Chosen Option : --

Q.32 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. B and C only
 - 2. A and D only
 - 3. A and C only
 - 4. A only

Question Type : **MCQ**

Question ID : **7155051472**

Option 1 ID : **7155054417**

Option 2 ID : **7155054418**

Option 3 ID : **7155054416**

Option 4 ID : **7155054415**

Status : **Answered**

Chosen Option : **2**

Q.33 **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

2.

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

3.

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

4. **A** is false but **R** is true

Question Type : **MCQ**

Question ID : **7155051485**

Option 1 ID : **7155054469**

Option 2 ID : **7155054467**

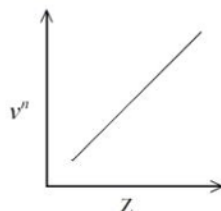
Option 3 ID : **7155054468**

Option 4 ID : **7155054470**

Status : **Not Answered**

Chosen Option : **--**

- Q.34** It is observed that characteristic X-ray spectra of elements show regularity. When frequency to the power “n” i.e. ν^n of X-rays emitted is plotted against atomic number “Z”, following graph is obtained.



The value of “n” is

- Options**
1. 1
 2. 3
 3. 2
 4. $\frac{1}{2}$

Question Type : **MCQ**

Question ID : **7155051474**

Option 1 ID : **7155054423**

Option 2 ID : **7155054425**

Option 3 ID : **7155054424**

Option 4 ID : **7155054426**

Status : **Not Answered**

Chosen Option : --

- Q.35** 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-III, B-IV, C-I, D-II
 2. A-IV, B-II, C-I, D-III
 3. A-I, B-IV, C-II, D-III
 4. A-I, B-III, C-II, D-IV

Question Type : **MCQ**

Question ID : **7155051475**

Option 1 ID : **7155054430**

Option 2 ID : **7155054427**

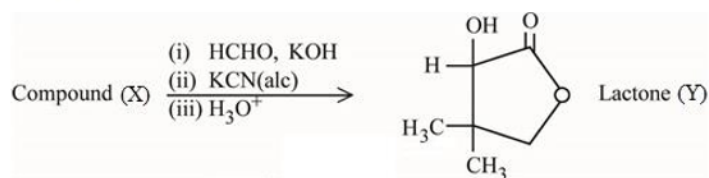
Option 3 ID : **7155054428**

Option 4 ID : **7155054429**

Status : **Not Answered**

Chosen Option : --

Q.36 Compound (X) undergoes following sequence of reactions to give the Lactone (Y).



Compound (X) is

Options

1. $\begin{array}{c} \text{H}_2\text{C} - \text{CH}_2 - \text{CHO} \\ | \\ \text{CH}_3 \end{array}$
2. $\begin{array}{c} \text{CH}_3 \\ | \\ \text{H} - \text{C} - \text{CHO} \\ | \\ \text{CH}_3 \end{array}$
3. $\begin{array}{c} \text{CH}_3 \\ | \\ \text{HOH}_2\text{C} - \text{C} - \text{CHO} \\ | \\ \text{CH}_3 \end{array}$
4. $\begin{array}{c} \text{H}_2\text{C} - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CHO} \\ | \\ \text{OH} \end{array}$

Question Type : **MCQ**

Question ID : **7155051487**

Option 1 ID : **7155054478**

Option 2 ID : **7155054477**

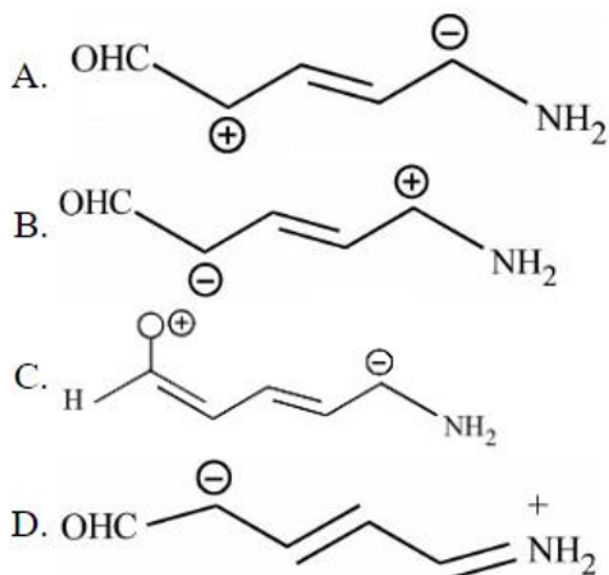
Option 3 ID : **7155054475**

Option 4 ID : **7155054476**

Status : **Not Answered**

Chosen Option : --

Q.37 Increasing order of stability of the resonance structures is:



Choose the correct answer from the options given below:

- Options 1. D, C, B, A
 2. C, D, A, B
 3. D, C, A, B
 4. C, D, B, A

Question Type : MCQ

Question ID : 7155051483

Option 1 ID : 7155054459

Option 2 ID : 7155054461

Option 3 ID : 7155054462

Option 4 ID : 7155054460

Status : Not Answered

Chosen Option : --

Q.38 **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 true
 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 false

Question Type : MCQ

Question ID : 7155051473

Option 1 ID : 7155054419

Option 2 ID : 7155054421

Option 3 ID : 7155054422

Option 4 ID : 7155054420

Status : Not Answered

Chosen Option : --

Q.39 Which of the Phosphorus oxoacid can create silver mirror from AgNO_3 solution?

- Options
1. $\text{H}_4\text{P}_2\text{O}_5$
 2. $(\text{HPO}_3)_n$
 3. $\text{H}_4\text{P}_2\text{O}_6$
 4. $\text{H}_4\text{P}_2\text{O}_7$

Question Type : **MCQ**

Question ID : **7155051479**

Option 1 ID : **7155054443**

Option 2 ID : **7155054444**

Option 3 ID : **7155054445**

Option 4 ID : **7155054446**

Status : **Not Answered**

Chosen Option : --

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

- Options
1. Fe^{2+}
 2. Cu^{2+}
 3. Co^{2+}
 4. Ni^{2+}

Question Type : **MCQ**

Question ID : **7155051489**

Option 1 ID : **7155054483**

Option 2 ID : **7155054486**

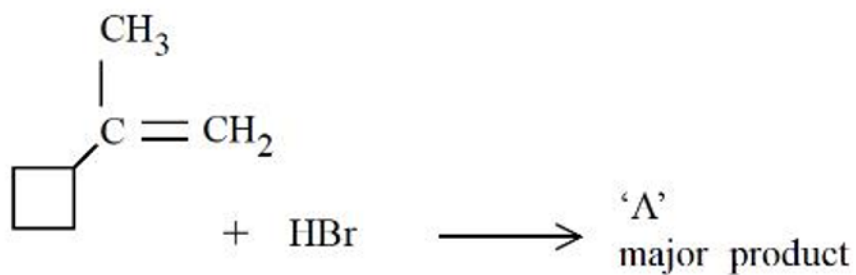
Option 3 ID : **7155054484**

Option 4 ID : **7155054485**

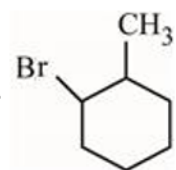
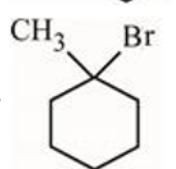
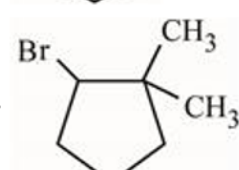
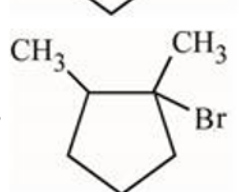
Status : **Not Answered**

Chosen Option : --

Q.41 In the following given reaction, 'A' is



Options

1. 
2. 
3. 
4. 

Question Type : MCQ

Question ID : 7155051484

Option 1 ID : 7155054463

Option 2 ID : 7155054464

Option 3 ID : 7155054465

Option 4 ID : 7155054466

Status : Not Answered

Chosen Option : --

Q.42 Order of Covalent bond;

- A. $\text{KF} > \text{KI}$; $\text{LiF} > \text{KF}$
- B. $\text{KF} < \text{KI}$; $\text{LiF} > \text{KF}$
- C. $\text{SnCl}_4 > \text{SnCl}_2$; $\text{CuCl} > \text{NaCl}$
- D. $\text{LiF} > \text{KF}$; $\text{CuCl} < \text{NaCl}$
- E. $\text{KF} < \text{KI}$; $\text{CuCl} > \text{NaCl}$

Choose the correct answer from the options given below:

- Options
- 1. A, B only
 - 2. C, E only
 - 3. B, C only
 - 4. B, C, E only

Question Type : **MCQ**

Question ID : **7155051471**

Option 1 ID : **7155054411**

Option 2 ID : **7155054413**

Option 3 ID : **7155054412**

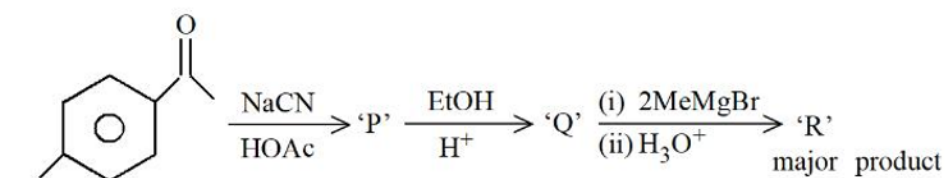
Option 4 ID : **7155054414**

Status : **Not Answered**

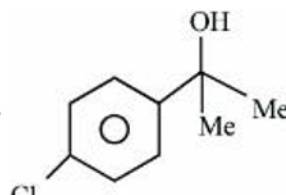
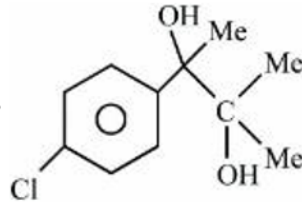
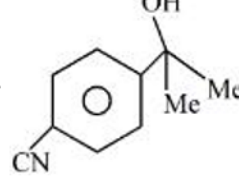
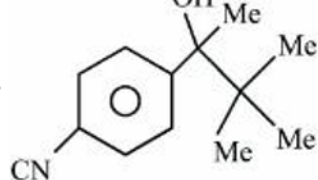
Chosen Option : --

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Q.43 'R' formed in the following sequence of reactions is :



Options

1. 
Clc1ccc(cc1)C(C)(C)C(O)C
2. 
Clc1ccc(cc1)C(C)(C)C(C)(C)C(O)C(C)C
3. 
N#Cc1ccc(cc1)C(C)(C)C(O)C
4. 
N#Cc1ccc(cc1)C(C)(C)C(C)(C)C(O)C(C)C

Question Type : MCQ

Question ID : 7155051488

Option 1 ID : 7155054481

Option 2 ID : 7155054479

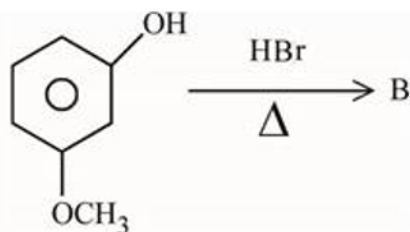
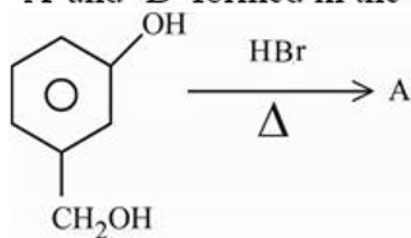
Option 3 ID : 7155054480

Option 4 ID : 7155054482

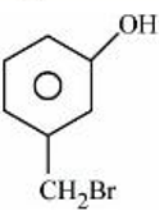
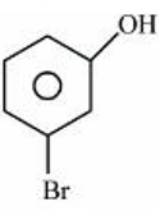
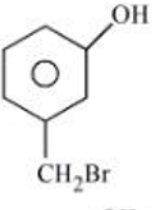
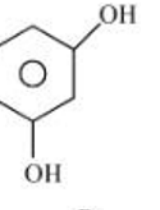
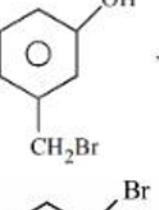
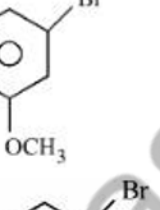
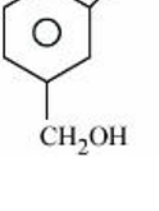
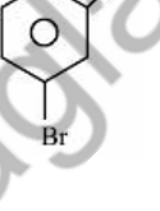
Status : Not Answered

Chosen Option : --

Q.44 'A' and 'B' formed in the following set of reactions are:



Options

1. A = , B = 
2. A = , B = 
3. A = , B = 
4. A = , B = 

Question Type : MCQ

Question ID : 7155051486

Option 1 ID : 7155054472

Option 2 ID : 7155054471

Option 3 ID : 7155054474

Option 4 ID : 7155054473

Status : Not Answered

Chosen Option : --

Q.45 The primary and secondary valencies of cobalt respectively in $[\text{Co}(\text{NH}_3)_5\text{Cl}]\text{Cl}_2$ are:

Options 1. 2 and 8

2. 2 and 6

3. 3 and 5

4. 3 and 6

Question Type : **MCQ**

Question ID : **7155051482**

Option 1 ID : **7155054457**

Option 2 ID : **7155054455**

Option 3 ID : **7155054456**

Option 4 ID : **7155054458**

Status : **Not Answered**

Chosen Option : --

Q.46 Reaction of BeO with ammonia and hydrogen fluoride gives A which on thermal decomposition gives BeF_2 and NH_4F . What is 'A' ?

Options 1. $(\text{NH}_4)\text{BeF}_3$

2. H_3NBeF_3

3. $(\text{NH}_4)\text{Be}_2\text{F}_5$

4. $(\text{NH}_4)_2\text{BeF}_4$

Question Type : **MCQ**

Question ID : **7155051477**

Option 1 ID : **7155054435**

Option 2 ID : **7155054437**

Option 3 ID : **7155054438**

Option 4 ID : **7155054436**

Status : **Not Answered**

Chosen Option : --

Q.47 Which of the following is true about freons?

Options 1. These are radicals of chlorine and chlorine monoxide

2. These are chlorofluorocarbon compounds

3. These are chemicals causing skin cancer

4. All radicals are called freons

Question Type : **MCQ**

Question ID : **7155051481**

Option 1 ID : **7155054452**

Option 2 ID : **7155054451**

Option 3 ID : **7155054453**

Option 4 ID : **7155054454**

Status : **Answered**

Chosen Option : **2**

Q.48 The magnetic moment of a transition metal compound has been calculated to be 3.87 B.M. The metal ion is

- Options
1. Mn^{2+}
 2. Cr^{2+}
 3. Ti^{2+}
 4. V^{2+}

Question Type : MCQ

Question ID : 7155051480

Option 1 ID : 7155054450

Option 2 ID : 7155054449

Option 3 ID : 7155054447

Option 4 ID : 7155054448

Status : Not Answered

Chosen Option : --

Q.49 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 incorrect but Statement II is correct
 2. Both Statement I and Statement II are correct
 3. Statement I is correct but Statement II is incorrect
 4. Both Statement I and Statement II are incorrect

Question Type : MCQ

Question ID : 7155051490

Option 1 ID : 7155054490

Option 2 ID : 7155054487

Option 3 ID : 7155054489

Option 4 ID : 7155054488

Status : Not Answered

Chosen Option : --

Q.50 Match List I with List II

LIST I		LIST II	
A.	Chlorophyll	I.	Na_2CO_3
B.	Soda ash	II.	CaSO_4
C.	Dentistry, Ornamental work	III.	Mg^{2+}
D.	Used in white washing	IV.	Ca(OH)_2

Choose the correct answer from the options given below:

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

Question Type : MCQ

Question ID : 7155051478

Option 1 ID : 7155054441

Option 2 ID : 7155054442

Option 3 ID : 7155054440

Option 4 ID : 7155054439

Status : Not Answered

Chosen Option : --

- Q.51** 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)

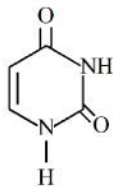
Given --
Answer :

Question Type : SA

Question ID : 7155051493

Status : Not Answered

- Q.52** Uracil is a base present in RNA with the following structure. % of N in uracil is _____



Given :

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

O = 16 g mol^{-1}

C = 12 g mol^{-1}

H = 1 g mol^{-1}

Given --
Answer :

Question Type : SA

Question ID : 7155051499

Status : Not Answered

- Q.53** 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.54** When $\text{Fe}_{0.93}\text{O}$ is heated in presence of oxygen, it converts to Fe_2O_3 . The number of **correct** statement/s from the following is _____

A. The equivalent weight of $\text{Fe}_{0.93}\text{O}$ is Molecular weight
0.79

B. The number of moles of Fe^{2+} and Fe^{3+} in 1 mole of $\text{Fe}_{0.93}\text{O}$ is 0.79 and 0.14 respectively

C. $\text{Fe}_{0.93}\text{O}$ is metal deficient with lattice comprising of cubic closed packed arrangement of O^{2-} ions

D. The % composition of Fe^{2+} and Fe^{3+} in $\text{Fe}_{0.93}\text{O}$ is 85% and 15% respectively

Given --
Answer :

Question Type : SA

Question ID : 7155051492

Status : Not Answered

Q.55 The d-electronic configuration of $[\text{CoCl}_4]^{2-}$ in tetrahedral crystal field is $e^m t_2^n$. Sum of "m" and "number of unpaired electrons" is _____

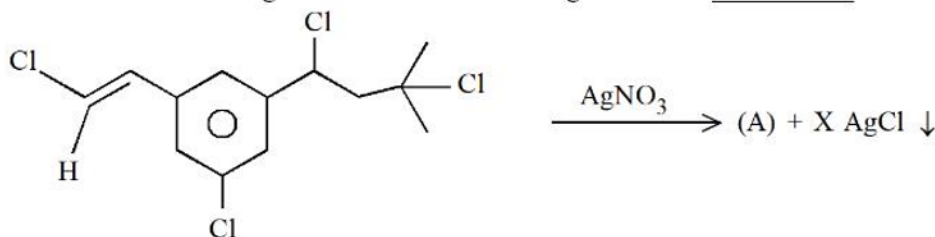
Given --
Answer :

Question Type : **SA**

Question ID : **7155051498**

Status : **Not Answered**

Q.56 Number of moles of AgCl formed in the following reaction is _____



Given --
Answer :

Question Type : **SA**

Question ID : **7155051500**

Status : **Not Answered**

Q.57 At 298 K, a 1 litre solution containing 10 mmol of $\text{Cr}_2\text{O}_7^{2-}$ and 100 mmol of Cr^{3+} shows a pH of 3.0.

Given: $\text{Cr}_2\text{O}_7^{2-} \rightarrow \text{Cr}^{3+}$; $E^\circ = 1.330\text{V}$

and $\frac{2.303 RT}{F} = 0.059 \text{ V}$

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

Given --
Answer :

Question Type : **SA**

Question ID : **7155051496**

Status : **Not Answered**

Q.58 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 --
Answer :

Question Type : **SA**

Question ID : **7155051497**

Status : **Not Answered**

Q.59 For independent processes at 300 K

Process	$\Delta H/\text{kJ mol}^{-1}$	$\Delta S/\text{J K}^{-1}$
A	-25	-80
B	-22	40
C	25	-50
D	22	20

The number of non-spontaneous processes from the following is _____

Given --

Answer :

Question Type : **SA**

Question ID : **7155051494**

Status : **Not Answered**

Q.60 The dissociation constant of acetic acid is $x \times 10^{-5}$. When 25 mL of 0.2 M CH_3COONa solution is mixed with 25 mL of 0.02 M CH_3COOH 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**

Section : **Mathematics Section A**

Q.61 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. — 6

2. 12

3. 2

4. 6

Question Type : **MCQ**

Question ID : **7155051512**

Option 1 ID : **7155054547**

Option 2 ID : **7155054546**

Option 3 ID : **7155054545**

Option 4 ID : **7155054548**

Status : **Not Answered**

Chosen Option : --

Q.62

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

Options

1. $\frac{n(n+1)}{2}$
2. $n^2 + n$
3. n^2
4. n

Question Type : MCQ

Question ID : 7155051514

Option 1 ID : 7155054553

Option 2 ID : 7155054554

Option 3 ID : 7155054555

Option 4 ID : 7155054556

Status : Not Answered

Chosen Option : --

Q.63 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. a unique solution in $(-\infty, 1)$

3. no solution

4. exactly two solutions in $(-\infty, \infty)$

Question Type : MCQ

Question ID : 7155051501

Option 1 ID : 7155054502

Option 2 ID : 7155054503

Option 3 ID : 7155054504

Option 4 ID : 7155054501

Status : Not Answered

Chosen Option : --

Q.64 Let Ω 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. only (S1) is true
 2. both (S1) and (S2) are false
 3. both (S1) and (S2) are true
 4. only (S2) is true

Question Type : MCQ

Question ID : 7155051519

Option 1 ID : 7155054575

Option 2 ID : 7155054574

Option 3 ID : 7155054573

Option 4 ID : 7155054576

Status : Not Answered

Chosen Option : --

Q.65 If A and B are two non-zero $n \times n$ matrices such that $A^2 + B = A^2 B$, then

- Options
1. $A^2 = I$ or $B = I$
 2. $AB = I$
 3. $A^2 B = BA^2$
 4. $A^2 B = I$

Question Type : MCQ

Question ID : 7155051505

Option 1 ID : 7155054518

Option 2 ID : 7155054520

Option 3 ID : 7155054519

Option 4 ID : 7155054517

Status : Not Answered

Chosen Option : --

Q.66

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

- Options
1. ${}^{45}C_{24}$
 2. ${}^{44}C_{23}$
 3. ${}^{44}C_{22}$
 4. ${}^{45}C_{23}$

Question Type : MCQ

Question ID : 7155051509

Option 1 ID : 7155054536

Option 2 ID : 7155054534

Option 3 ID : 7155054533

Option 4 ID : 7155054535

Status : Not Answered

Chosen Option : --

Q.67 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. 19
 2. 18
 3. 21
 4. 20

Question Type : MCQ

Question ID : 7155051504

Option 1 ID : 7155054515

Option 2 ID : 7155054514

Option 3 ID : 7155054513

Option 4 ID : 7155054516

Status : Not Answered

Chosen Option : --

Q.68 The distance of the point $(-1, 9, -16)$ from the plane $2x + 3y - z = 5$ measured parallel to the line

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

- Options
1. 31
 2. 26
 3. $13\sqrt{2}$
 4. $20\sqrt{2}$

Question Type : MCQ

Question ID : 7155051516

Option 1 ID : 7155054564

Option 2 ID : 7155054563

Option 3 ID : 7155054561

Option 4 ID : 7155054562

Status : Not Answered

Chosen Option : --

Q.69 The relation $R = \{(a,b): \gcd(a,b) = 1, 2a \neq b, a, b \in \mathbb{Z}\}$ is :

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

Question Type : MCQ

Question ID : 7155051502

Option 1 ID : 7155054507

Option 2 ID : 7155054505

Option 3 ID : 7155054506

Option 4 ID : 7155054508

Status : Not Answered

Chosen Option : --

Q.70 Let PQR be a triangle. The points A, B and 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 $\frac{\text{Area}(\Delta PQR)}{\text{Area}(\Delta ABC)}$ is equal to

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

Question Type : MCQ

Question ID : 7155051518

Option 1 ID : 7155054571

Option 2 ID : 7155054570

Option 3 ID : 7155054572

Option 4 ID : 7155054569

Status : Not Answered

Chosen Option : --

Q.71 Let $f(x) = \begin{cases} x^2 \sin\left(\frac{1}{x}\right), & x \neq 0 \\ 0, & x = 0 \end{cases}$

Then at $x = 0$

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

Question Type : MCQ

Question ID : 7155051513

Option 1 ID : 7155054549

Option 2 ID : 7155054551

Option 3 ID : 7155054550

Option 4 ID : 7155054552

Status : Not Answered

Chosen Option : --

Q.72

$\tan^{-1}\left(\frac{1+\sqrt{3}}{3+\sqrt{3}}\right) + \sec^{-1}\left(\sqrt{\frac{8+4\sqrt{3}}{6+3\sqrt{3}}}\right)$ 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 : 7155051507

Option 1 ID : 7155054526

Option 2 ID : 7155054528

Option 3 ID : 7155054527

Option 4 ID : 7155054525

Status : Not Answered

Chosen Option : --

Q.73 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. 5
 2. $4\sqrt{2}$
 3. 4
 4. $5\sqrt{2}$

Question Type : MCQ

Question ID : 7155051511

Option 1 ID : 7155054542

Option 2 ID : 7155054543

Option 3 ID : 7155054541

Option 4 ID : 7155054544

Status : Not Answered

Chosen Option : --

Q.74 The area enclosed by the curves $y^2 + 4x = 4$ and $y - 2x = 2$ is :

- Options
1. $\frac{22}{3}$
 2. $\frac{25}{3}$
 3. 9
 4. $\frac{23}{3}$

Question Type : MCQ

Question ID : 7155051515

Option 1 ID : 7155054557

Option 2 ID : 7155054560

Option 3 ID : 7155054559

Option 4 ID : 7155054558

Status : Not Answered

Chosen Option : --

Q.75 Let $p, q \in \mathbb{R}$ and $(1 - \sqrt{3}i)^{200} = 2^{199}(p + iq)$, $i = \sqrt{-1}$. Then $p + q + q^2$ and $p - q + q^2$ are roots of the equation.

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

Question Type : **MCQ**

Question ID : **7155051503**

Option 1 ID : **7155054509**

Option 2 ID : **7155054512**

Option 3 ID : **7155054510**

Option 4 ID : **7155054511**

Status : **Not Answered**

Chosen Option : --

Q.76 Let α be a root of the equation $(a - c)x^2 + (b - a)x + (c - b) = 0$

where a, b, c are distinct real numbers such that 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. **12**
 2. 3
 3. 6
 4. 9

Question Type : **MCQ**

Question ID : **7155051506**

Option 1 ID : **7155054524**

Option 2 ID : **7155054521**

Option 3 ID : **7155054522**

Option 4 ID : **7155054523**

Status : **Not Answered**

Chosen Option : --

Q.77 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. **3**
 2. 1
 3. $2 - e$
 4. e

Question Type : **MCQ**

Question ID : **7155051508**

Option 1 ID : **7155054531**

Option 2 ID : **7155054532**

Option 3 ID : **7155054529**

Option 4 ID : **7155054530**

Status : **Not Answered**

Chosen Option : --

Q.78 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. $\frac{3}{2}$
 2. 1
 3. 2
 4. $-\frac{2}{3}$

Question Type : **MCQ**

Question ID : **7155051517**

Option 1 ID : **7155054567**

Option 2 ID : **7155054566**

Option 3 ID : **7155054568**

Option 4 ID : **7155054565**

Status : **Not Answered**

Chosen Option : --

Q.79 The compound statement $(\sim (P \wedge Q)) \vee ((\sim P) \wedge Q) \Rightarrow ((\sim P) \wedge (\sim Q))$ is equivalent to

- Options
1. $((\sim P) \vee Q) \wedge (\sim Q)$
 2. $((\sim P) \vee Q) \wedge ((\sim Q) \vee P)$
 3. $(\sim Q) \vee P$
 4. $(\sim P) \vee Q$

Question Type : **MCQ**

Question ID : **7155051520**

Option 1 ID : **7155054577**

Option 2 ID : **7155054580**

Option 3 ID : **7155054579**

Option 4 ID : **7155054578**

Status : **Not Answered**

Chosen Option : --

Q.80 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 lie on a parabola with the

- Options
1. directrix $4x = 3$
 2. length of latus rectum 2
 3. directrix $4x = -3$
 4. length of latus rectum $\frac{3}{2}$

Question Type : **MCQ**

Question ID : **7155051510**

Option 1 ID : **7155054538**

Option 2 ID : **7155054540**

Option 3 ID : **7155054537**

Option 4 ID : **7155054539**

Status : **Not Answered**

Chosen Option : --

Q.81 Suppose $\sum_{r=0}^{2023} r^2 \cdot {}^{2023}C_r = 2023 \times \alpha \times 2^{2022}$. Then the value of α is _____

Given --
Answer :

Question Type : **SA**
Question ID : **7155051524**
Status : **Not Answered**

Q.82 The number of 9 digit numbers, that can be formed using all the digits of the number 123412341 so that the even digits occupy only even places, is _____

Given --
Answer :

Question Type : **SA**
Question ID : **7155051522**
Status : **Not Answered**

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 Let $\lambda \in \mathbb{R}$ and let the equation E be $|x|^2 - 2|x| + |\lambda - 3| = 0$. Then the largest element in the set $S = \{x + \lambda : x \text{ is an integer solution of E}\}$ is _____

Given --
Answer :

Question Type : **SA**
Question ID : **7155051526**
Status : **Not Answered**

Q.85 A boy needs to select five courses from 12 available courses, out of which 5 courses are language courses. If he can choose at most two language courses, then the number of ways he can choose five courses is _____

Given --
Answer :

Question Type : **SA**
Question ID : **7155051525**
Status : **Not Answered**

Q.86 The 4th 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 values of m is _____

Given --
Answer :

Question Type : **SA**
Question ID : **7155051523**
Status : **Not Answered**

Q.87

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 : SA

Question ID : 7155051528

Status : Not Answered

Q.88

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, α) lies on C, then $10\alpha^2$ is equal to _____

Given --
Answer :

Question Type : SA

Question ID : 7155051529

Status : Not Answered

Q.89

Let a tangent to the curve $9x^2 + 16y^2 = 144$ intersect the coordinate axes at the points A and B. Then, the minimum length of the line segment AB is _____

Given --
Answer :

Question Type : SA

Question ID : 7155051521

Status : Not Answered

Q.90

The shortest distance between the lines $\frac{x-2}{3} = \frac{y+1}{2} = \frac{z-6}{2}$ and $\frac{x-6}{3} = \frac{1-y}{2} = \frac{z+8}{0}$ is equal to _____

Given --
Answer :

Question Type : SA

Question ID : 7155051530

Status : Not Answered