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

Application No	
Candidate Name	
Roll No	
Test Date	
Test Time	3:00 PM - 6:00 PM
Subject	В ТЕСН

Section: Physics Section A

The escape velocities of two planets A and B are in the ratio 1:2. If the ratio of their racii respectively is 1:3, then the intio of acceleration due to gravity of planet A to the acceleration of gravity of planet B will be :

Options 1.

3. $\frac{3}{2}$ 2. $\frac{2}{3}$ 3. $\frac{3}{4}$ 4. $\frac{4}{3}$

Question Type : MCQ

Question ID: 7155051174 Option 1 ID: 7155053526 Option 2 ID: 7155053523

Option 3 ID: 7155053525 Option 4 ID: 7155053524

Status: Answered

Chosen Option: 1

Equivalent resistance between the adjacent corners of a regular n-sided polygon of uniform wire of resistance R would be:

Options

$$\int_{1}^{2} \frac{n^2 R}{n-1}$$

$$2.\frac{(n-1)R}{n}$$

$$3. \frac{(n-1)R}{(2n-1)}$$

$$4. \frac{(n-1)R}{n^2}$$

Question Type : MCQ

Question ID: 7155051181 Option 1 ID: 7155053553

Option 2 ID: 7155053551 Option 3 ID: 7155053554 Option 4 ID: 7155053552

Status: Answered

Two objects A and B are placed at 15 cm and 25 cm from the pole in front of a concave mirror having radius of curvature 40 cm. The distance between images formed by the mirror is

Options 1. 100 cm

- 2.160 cm
- 3. 40 cm
- 4.60 cm

Question Type: MCQ

Question ID: 7155051186 Option 1 ID: 7155053573 Option 2 ID: 7155053574 Option 3 ID: 7155053572 Option 4 ID: 7155053571

Status : **Answered** Chosen Option: 3

In an amplitude modulation, a modulating signal having amplitude of X V is superimposed with a carrier signal of amplitude YV in first case. Then, in second case, the same modulating signal is superimposed with different carrier signal of amplitude 2Y V. The ratio of modulation index in the two cases respectively will be:

Options 1. 2 : 1

2.4:1

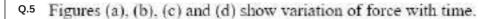
3.1:1

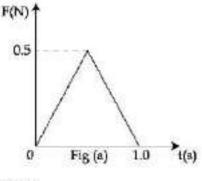
4.1:2

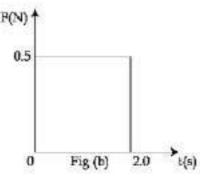
Question Type : $\boldsymbol{\mathsf{MCQ}}$

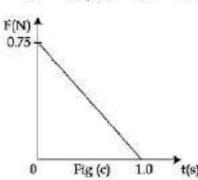
Question ID: 7155051190 Option 1 ID: 7155053588 Option 2 ID: 7155053590 Option 3 ID: 7155053589 Option 4 ID: 7155053587

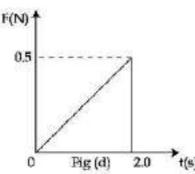
Status: Answered











The impulse is highest in figure.

Options 1. Fig (b)

- 2. Fig (a)
- 3. Fig (c)
- 4. Fig (d)

Question Type: MCQ

Question ID: 7155051172

Option 1 ID: 7155053516

Option 2 ID: 7155053515

Option 3 ID: 7155053517

Option 4 ID: 7155053518

Status: Answered

Chosen Option: 2

Choose the correct statement about Zener diode: Options 1.

It works as a voltage regulator in both forward and reverse bias.

It works as a voltage regulator in forward bias and behaves like simple pur junction diode in reverse

It works as a voltage regulator only in forward bias.

It works as a voltage regulator in reverse bias and behaves like simple pn junction diode in forward

Question Type : MCQ

Question ID: 7155051189

Option 1 ID: 7155053585

Option 2 ID: 7155053583

Option 3 ID: 7155053586

Option 4 ID: 7155053584

Status: Answered

Given below are two statements: One is labelled as Assertion A and the other is labelled as

Assertion A: Two metallic apheres are charged to the same potential. One of them is hollow and another is solid, and both have the same radii. Solid sphere will have lower charge than the hollow

Reason R: Capacitance of metallic spheres depend on the radii of spheres.

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

Options 1. \mathbf{A} is false but \mathbf{R} is true

2. A is true but R is false

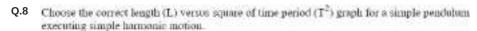
Both A and R are true and R is the correct explanation of A

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

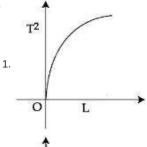
Question Type: MCQ

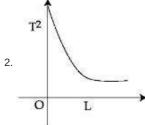
Question ID: 7155051180 Option 1 ID: 7155053550 Option 2 ID: 7155053549 Option 3 ID: 7155053547

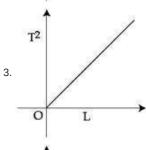
Option 4 ID: 7155053548 Status: Answered

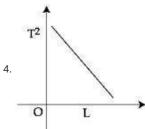


Options









Question Type: MCQ

Question ID: 7155051178 Option 1 ID: 7155053539 Option 2 ID: 7155053540 Option 3 ID: 7155053542 Option 4 ID: 7155053541 Status: Answered

Chosen Option: 1

The ratio of average electric energy density and total average energy density of electromagnetic Q.9 Waye to 1

 $\frac{1}{2}$ Options

2. 3

3. 2

4. 1

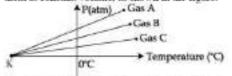
Question Type : MCQ

Question ID: 7155051185 Option 1 ID: 7155053569 Option 2 ID: 7155053570

Option 3 ID: 7155053568 Option 4 ID: 7155053567

Status: Answered

For three low density gases A, B, C pressure versus temperature graphs are plotted while keeping them at constant volume, as shown in the figure.



The temperature corresponding to the point 'K' is :

Options 1. — 100° C

- 2. 273°C
- $3. 40^{\circ}C$
- 4. 373°C

Question Type: MCQ

Question ID: 7155051177 Option 1 ID: 7155053535 Option 2 ID: 7155053537 Option 3 ID: 7155053536 Option 4 ID: 7155053538 Status : Answered

Chosen Option: 1

Q.11 An electron of a hydrogen like atom, having Z = 4, jumps from 4^{th} energy state to 2^{th} energy state.

The energy released in this process, will be :

(Given Rch = 13.6 eV)

Where R = Rydberg constant

c = Speed of light in vacuum

h = Planck's constant

Options 1. $10.5~{\rm eV}$

- 2.40.8 eV
- 3.13.6 eV
- 4.3.4 eV

Question Type : MCQ

Question ID: 7155051188 Option 1 ID: 7155053581 Option 2 ID: 7155053580 Option 3 ID: 7155053579

Option 4 ID: 7155053582 Status: Answered

Q.12 Given below are two statements: One is labelled as Assertion A and the other is labelled as

Assertion A : For measuring the potential difference across a resistance of 600Ω , the voltmeter with resistance 1000 Ω will be preferred over voltmeter with resistance 4000 Ω .

Reason R: Voltmeter with higher resistance will draw smaller current than voltmeter with lower

In the light of the above statements, choose the most appropriate answer from the options given

Options 1. A is correct but R is not correct

Both A and R are correct but R is not the correct explanation of A

3. A is not correct but R is correct

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

Question Type: MCQ

Question ID: 7155051183 Option 1 ID: 7155053561 Option 2 ID: 7155053560 Option 3 ID: 7155053562 Option 4 ID: 7155053559 Status: Answered

Chosen Option: 4

Q.13 If the velocity of light c, universal gravitational constant G and Planck's constant h are chosen as fundamental quantities. The dimensions of mass in the new system is:

Options 1.
$$\left[h^{-\frac{1}{2}}c^{\frac{1}{2}}G^{\frac{1}{2}}\right]$$

$$^{2} [h^{\frac{1}{2}} c^{-\frac{1}{2}} G^{1}]$$

$$^{4} [h^{1} c^{1} G^{-1}]$$

Question Type: MCQ

Question ID: 7155051179 Option 1 ID: 7155053546 Option 2 ID: 7155053545 Option 3 ID: 7155053544 Option 4 ID: 7155053543 Status: Answered

Q.14 As shown in the figure, a long straight conductor with semicircular arc of radius $\frac{\pi}{10}$ m is carrying current I = 3A. The magnitude of the magnetic field, at the center O of the arc is : (The permeability of the vacuum = $4\pi \times 10^{-7} \text{ NA}^{-2}$)



Options 1. 6 μT

- 2. 3µT
- 3. 4µT
- 4. 1 µT

Question Type : MCQ

Question ID: 7155051182 Option 1 ID: 7155053558 Option 2 ID: 7155053556 Option 3 ID: 7155053557 Option 4 ID: 7155053555 Status: Answered

Chosen Option: 1

Q.15 The threshold frequency of a metal is f₀. When the light of frequency 2f₀ is incident on the metal plate, the maximum velocity of photoelectrons is v_1 . When the frequency of incident radiation is increased to St_0 , the maximum velocity of photoelectrons emitted is v_2 . The ratio of v_1 to v_2 is:

Options 1.
$$\frac{v_1}{v_2} = \frac{1}{16}$$

$$2. \frac{v_1}{v_2} = \frac{1}{8}$$

3.
$$\frac{v_1}{v_2} = \frac{1}{2}$$

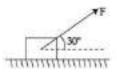
$$4. \frac{v_1}{v_2} = \frac{1}{4}$$

Question Type: MCQ

Question ID: 7155051187 Option 1 ID: 7155053578 Option 2 ID: 7155053577 Option 3 ID: 7155053576 Option 4 ID: 7155053575 Status: Answered

As shown in the figure a block of mass 10 kg lying on a horizontal surface is pulled by a force F acting at an angle 30°, with horizontal. For μ_4 =0.25, the block will just start to move for the value

of F | Given g = 10 ms



Options 1. 20 N

- 2. 33.3 N
- 3. 25.2 N
- 4.35.7 N

Question Type: MCQ

Question ID: 7155051173 Option 1 ID: 7155053520 Option 2 ID: 7155053519 Option 3 ID: 7155053521 Option 4 ID: 7155053522 Status: Answered

Chosen Option: 3

Q.17 For a body projected at an angle with the horizontal from the ground, choose the correct statement

Options 1.

The Kinetic Energy (K.E.) is zero at the highest point of projectile motion.

The vertical component of momentum is maximum at the highest point.

The horizontal component of velocity is zero at the highest point.

Gravitational potential energy is maximum at the highest point.

Question Type: MCQ

Question ID: 7155051171 Option 1 ID: 7155053511 Option 2 ID: 7155053514 Option 3 ID: 7155053512 Option 4 ID: 7155053513 Status: Answered

Chosen Option: 1

Q.18 The Young's modulus of a steel wire of length 6 m and cross-sectional area 3 mm², is 2×10^{11} N/m2. The wice is suspended from its support on a given planet. A block of mass 4 kg is attached to the free end of the wire. The acceleration due to gravity on the planet is $\frac{1}{4}$ of its value on the

earth. The elongation of wire is (Take g on the earth = 10 m/s2):

Options 1. 0.1 mm

- 2. 1 mm
- 3. 0.1 cm
- 4.1 cm

Question Type: MCQ

Question ID: 7155051175

Option 1 ID: 7155053527 Option 2 ID: 7155053529

Option 3 ID: 7155053528

Option 4 ID: 7155053530

Status: Answered

Q.19 A Carnot engine operating between two reservoirs has efficiency $\frac{1}{4}$. When the temperature of cold reservoir raised by x, its efficiency decreases to $\frac{1}{n}$. The value of x, if the temperature of hot reservoir is 99°C, will be Options 1. 33 K 2.16.5 K 3.66 K 4.62 K Question Type: MCQ Question ID: 7155051176 Option 1 ID: 7155053532 Option 2 ID: 7155053531 Option 3 ID: 7155053534 Option 4 ID: 7155053533 Status: Answered Chosen Option: 1 A coil is placed in magnetic field such that plane of coil is perpendicular to the direction of magnetic field. The magnetic flux through a coil can be changed A. By changing the magnitude of the magnetic field within the coil. B. By changing the area of coil within the magnetic field. C. By changing the angle between the direction of magnetic field and the plane of the coil. D. By reversing the magnetic field direction abruptly without changing its magnitude. Choose the most appropriate answer from the options given below: Options 1. A, B and C only 2. A and B only 3. A, B and D only 4. A and C only Question Type: MCQ Question ID: 7155051184 Option 1 ID: 7155053565 Option 2 ID: 7155053563 Option 3 ID: 7155053566 Option 4 ID: 7155053564 Status: Answered Chosen Option: 1 Section: Physics Section B

0.21 A force $F = (5 + 3y^2)$ acts on a particle in the y-direction, where F is in newton and y is in meter.

Given 21 Answer:

> Question Type: SA Question ID: 7155051192 Status: Answered

For a train engine moving with speed of 20 ms⁻¹, the driver must apply beakes at a distance of 500 m before the station for the train to come to cest at the station. If the brakes were applied at half of Q.22 this distance, the train engine would cross the station with speed \sqrt{x} mm⁻¹. The value of x is

(Assuming same retardation is produced by brakes)

Given 2

Answer:

Question Type: SA Question ID: 7155051191 Status: Answered

Q.23	A cubical volume is bounded by the surfaces $x=0$, $x=a$, $y=0$, $y=a$, $z=0$, $z=a$. The electric field in the region is given by $\frac{z}{k} = \sum_{k \in \mathbb{Z}} \hat{x}^k$. Where $E_0 = 4 \times 10^4 \text{ NC}^{-1} \text{ m}^{-1}$. If $n=2$ cm, the charge
	contained in the cobical volume is $Q = 10^{-14}C$. The value of Q is Take $E_0 = 9 = 10^{-12} C^2 Nim^2$)

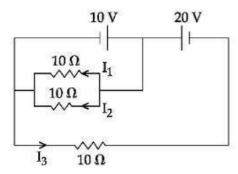
Given --Answer :

02/02/2023, 21:48

Question Type : **SA**Question ID : **7155051196**

Status : Not Attempted and Marked For Review

In the given circuit, the value of $\left| \frac{I_1 + I_3}{I_2} \right|$ is ______



Given 2 Answer:

Question Type : SA

Question ID : 7155051197

Status : Answered

Q.25 A square shaped coil of area 70 cm² having 600 turns rotates in a magnetic field of 0.4 whm⁻², about an axis which is parallel to one of the side of the coil and perpendicular to the direction of field. If the coil completes 500 revolution in a minute, the instantaneous emf when the plane of the coil is inclined at 60° with the field, will be _______V. (Take π = ²²/_π)

Given 44 Answer:

Question Type : SA
Question ID : 7155051198
Status : Answered

Q.26 A block is fastened to a horizontal spring. The block is pulled to a distance x = 10 cm from its equilibrium position (at x = 0) on a frictionless surface from rest. The energy of the block at x = 5 cm is 0.25 J. The spring constant of the spring is ______ Nm⁻¹.

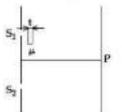
Given --Answer :

Question Type : **SA**Question ID : **7155051195**Status : **Not Answered**

\sim	100	$I \cap A \cap A$. 21:4

Q.27

As shown in the figure, in Young's double slit experiment, a thin plate of thickness t = 1000 and refractive index $\mu = 1.2$ is innerted infront of slit S₁. The experiment is conducted in air $\mu = 1$ and uses a monochromatic light of wavelength i. = 500 nm. Due to the insertion of the plate, central maxima is shifted by a distance of $x\beta_0$. β_0 is the fringe-width befor the insertion of the plate. The



Given --Answer:

Question Type : SA

Question ID: 7155051199 Status: Not Answered

Moment of inertia of a disc of mass M and radius ${}^{\circ}R^{\circ}$ about any of its diameter is $\frac{MR^2}{4}$. The Q.28 moment of inertia of this disc about an axis normal to the disc and passing through a point on its edge will be, $\frac{1}{2}MR^2$. The value of x is_

Given -Answer:

Question Type: SA

Question ID: 7155051193 Status: Not Answered

The surface of water in a water tank of cross section area 750 cm² on the top of a house is 6 m Q.29 above the tap level. The speed of water coming out through the tap of cross section area 500 mm² is 30 cm/s. At that instant, $\frac{dh}{dt}$ is $x \times 10^{-3}$ m/s. The value of x will be

Given --Answer:

Question Type: SA

Question ID: 7155051194 Status: Not Answered

Nucleus A having Z = 17 and equal number of protons and neutrons has 1.2 MeV binding energy Q.30

Another nucleus B of Z = 12 has total 26 nucleons and 1.8 MeV binding energy per nucleons. The difference of binding energy of B and A will be ______ MeV.

Given 45.6 Answer:

Question Type: SA

Question ID: 7155051200 Status: Answered

Section: Chemistry Section A

Q.31 Given below are two statements: one is labelled as Assertion (A) and the other is labelled as Reason (R) Assertion (A) 1 Cu2+ in water is more stable than Cu7. Reason (R): Enthalpy of hydration for Cu2+ is much less than that of Cu4. In the light of the above statements, choose the correct answer from the options given below:

Options 1. (A) is not correct but (R) is correct

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

3. (A) is correct but (R) is not correct

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

Question Type: MCQ Question ID: 7155051209 Option 1 ID: 7155053636 Option 2 ID: 7155053633 Option 3 ID: 7155053635 Option 4 ID: 7155053634 Status: Answered Chosen Option: 2

Q.32 The effect of addition of helium gas to the following reaction in equilibrium state, is: $PCl_5(g) \rightleftharpoons PCl_3(g) + Cl_2(g)$

Options 1.

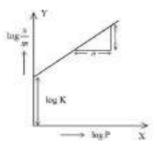
the equilibrium will go backward due to suppression of dissociation of PCl₅.

the equilibrium will shift in the forward direction and more of Cl2 and PCl3 gases will be produced.

- 3. helium will deactivate PCl₅ and reaction will stop.
- 4 addition of helium will not affect the equilibrium.

Question Type : MCQ Question ID: 7155051203 Option 1 ID: 7155053610 Option 2 ID: 7155053611 Option 3 ID: 7155053612 Option 4 ID: 7155053609 Status: Answered

Q.33 In figure, a straight line is given for Freundrich Adsorption (y = 3x + 2.505). The value of $\frac{1}{2}$ and log K are respectively.



Options 1. 0.3 and log 2.505

- 2. 3 and 2.505
- 3. 3 and 0.7033
- 4. 0.3 and 0.7033

Question Type: MCQ

Question ID: 7155051204

Option 1 ID: 7155053614

Option 2 ID: 7155053613

Option 3 ID: 7155053616

Option 4 ID: 7155053615

Status: Answered

Chosen Option: 2

Q.34 The structures of major products A, B and C in the following reaction are sequence.

$$H \xrightarrow{\text{NaHSO}_3, \text{dil. HCl}} [A] \xrightarrow{\text{LiAIH}_4} [B]$$

$$HCl/H_2O \downarrow [C]$$

Options 1.

3.

$$A =$$
 $O8O_3Na$
 H
 OH
 $C =$
 H

Question Type : MCQ

Question ID: 7155051216

Option 1 ID: 7155053664

Option 2 ID: 7155053661

Option 3 ID: 7155053663 Option 4 ID: 7155053662

Status: Answered

Given below are two statements: one is labelled as Assertion (A) and the other is labelled as

Assertion (A): Gypsum is used for making fireproof wall boards.

Reason (R): Gypsum is unstable at high temperatures.

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

Options 1. (A) is not correct but (R) is correct

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

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

4. (A) is correct but (R) is not correct

Question Type: MCQ

Question ID: 7155051207 Option 1 ID: 7155053628 Option 2 ID: 7155053626 Option 3 ID: 7155053625 Option 4 ID: 7155053627 Status: Answered

Chosen Option: 2

Q.36 Which element is not present in Nessler's reagent?

Options 1. Mercury

- 2. Iodine
- 3. Potassium
- 4. Oxygen

Question Type: MCQ

Question ID: 7155051218 Option 1 ID: 7155053672 Option 2 ID: 7155053671 Option 3 ID: 7155053669 Option 4 ID: 7155053670 Status: Answered

Chosen Option: 4

Q.37 The starting material for convenient preparation of deutemed hydrogen peroxide (D₂O₂) in laboratory is:

Options $_1$. $\mathrm{K}_2\mathrm{S}_2\mathrm{O}_8$

- 2. BaO
- 3. BaO₂
- 4. 2-ethylanthraquinol

Question Type: MCQ

Question ID: 7155051206 Option 1 ID: 7155053623 Option 2 ID: 7155053621 Option 3 ID: 7155053622 Option 4 ID: 7155053624

Status: Answered

```
Q.38 Which one of the following sets of ions represents a collection of isoelectronic species?
       (Given: Atomic Number: F: 9, CI: 17, Na = 11, Mg = 12, AI = 13, K = 19, Ca = 20, Sc = 21)
```

Options 1. N³⁻, O²⁻, F⁻, S²⁻

- ² Ba²⁺, Sr²⁺, K⁺, Ca²⁺
- ³ Li⁺, Na⁺, Mg²⁺, Ca²⁺
- ⁴ K⁺, Cl⁻, Ca²⁺, Sc³⁺

Question Type: MCQ

Question ID: 7155051201 Option 1 ID: 7155053601 Option 2 ID: 7155053604 Option 3 ID: 7155053603 Option 4 ID: 7155053602 Status: Answered

Chosen Option: 1

O.39 Given below are two statements

Statement I: Sulphanilic acid gives esterification test for carboxyl group.

Statement II: Sulphanilic acid gives red colour in Lassigne's test for extra element detection. In the light of the above statements, choose the most appropriate 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. Both Statement I and Statement II are incorrect
- 4. Statement I is correct but Statement II is incorrect

Question Type: MCQ

Question ID: 7155051212 Option 1 ID: 7155053648 Option 2 ID: 7155053645 Option 3 ID: 7155053646 Option 4 ID: 7155053647 Status: Answered

Chosen Option: 2

Given below are two statements: one is labelled as Assertion (A) and the other is labelled as 0.40 Reason (R)

Assertion (A): An injueous solution of KOH when used for volumetric analysis, its concentration should be checked before the use.

Reason (R): On aging, KOH solution absorbs atmospheric CO2

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

Options 1

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

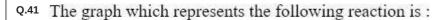
Both (A) and (R) are correct and (R) is the correct explanation of (A)

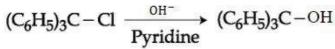
- 3. (A) is correct but (R) is not correct
- 4 (A) is not correct but (R) is correct

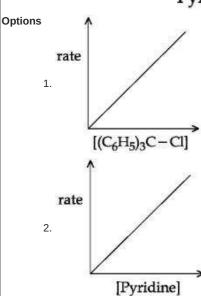
Question Type: MCQ

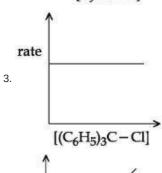
Question ID: 7155051220 Option 1 ID: 7155053678 Option 2 ID: 7155053677 Option 3 ID: 7155053679 Option 4 ID: 7155053680

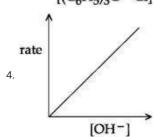
Status: Answered











Question Type : MCQ

Question ID: 7155051214 Option 1 ID: 7155053653 Option 2 ID: 7155053654 Option 3 ID: 7155053656

Option 4 ID: 7155053655

Status: Answered

Q.42 O - O bond length in H2O2 is X than the O - O bond length in F2O2. The O - H bond length in

 H_2O_2 is Σ than that of the O-F bond in F_2O_2 .

Choose the correct option for \underline{X} and \underline{Y} from those given below:

Options 1. X - longer, Y - longer

2. X - shorter, Y - shorter

3. X - shorter, Y - longer

4. X - longer, Y - shorter

Question Type : MCQ

Question ID: 7155051202 Option 1 ID: 7155053605 Option 2 ID: 7155053606 Option 3 ID: 7155053608

Option 4 ID: 7155053607 Status: Answered

Chosen Option: 2

Q.43 In a reaction.

reagents 'X' and 'Y' respectively are :

Options 1. CH_3OH/H^+ , Δ and $(CH_3CO)_2O/H^+$

^{2.} CH₃OH/H⁺, Δ and CH₃OH/H⁺, Δ

3. (CH₃CO)₂O/H⁺ and (CH₃CO)₂O/H⁺

⁴ $(CH_3CO)_2O/H^+$ and CH_3OH/H^+ , Δ

Question Type: MCQ

Question ID: 7155051215 Option 1 ID: 7155053657 Option 2 ID: 7155053659 Option 3 ID: 7155053660 Option 4 ID: 7155053658

Status: Answered

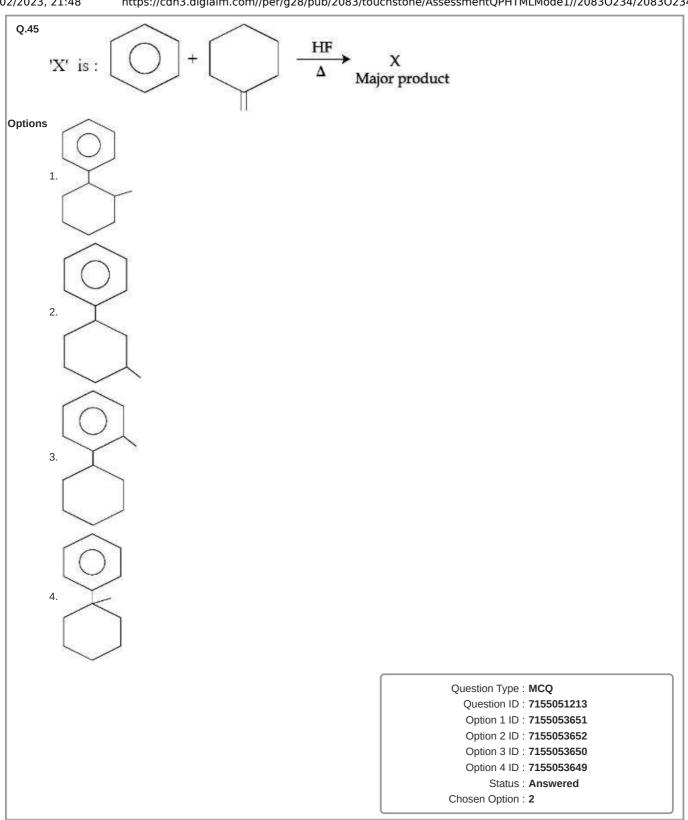
Q.44 All structures given below are of vitamin C. Most stable of them is:

Options 1. HO

Question Type : MCQ

Question ID: 7155051219 Option 1 ID: 7155053675 Option 2 ID: 7155053676 Option 3 ID: 7155053673

Option 4 ID: 7155053674 Status: Answered



Q.46 The industrial activity held least responsible for global warming is:

Options 1. Electricity generation in thermal power plants

- 2. Industrial production of urea
- 3. manufacturing of cement
- 4 steel manufacturing

Question Type : MCQ

Question ID: 7155051211 Option 1 ID: 7155053642 Option 2 ID: 7155053641 Option 3 ID: 7155053643 Option 4 ID: 7155053644

Status : **Answered** Chosen Option : **3**

Q.47 For electron gain enthalpies of the elements denoted as $\Delta_{ex}H$, the incorrect option is :

Options 1. $\Delta_{eg}H(I) \leq \Delta_{eg}H(At)$

- 2. $\Delta_{eg}H(Cl) \leq \Delta_{eg}H(F)$
- з. $\Delta_{eg}H$ (Te) $\leq \Delta_{eg}H$ (Po)
- 4. $\Delta_{eg}H$ (Se) $\leq \Delta_{eg}H$ (S)

Question Type : MCQ

Question ID : 7155051205 Option 1 ID : 7155053620 Option 2 ID : 7155053618 Option 3 ID : 7155053619 Option 4 ID : 7155053617 Status : Answered

Chosen Option: 3

Q.48 The correct order of bond enthalpy (kJ mol⁻¹) is:

Options 1.
$$C - C > Si - Si > Ge - Ge > Sn - Sn$$

2.
$$C - C > Si - Si > Sn - Sn > Ge - Ge$$

3.
$$Si - Si > C - C > Ge - Ge > Sn - Sn$$

$$4. Si - Si > C - C > Sn - Sn > Ge - Ge$$

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

Question ID: 7155051208
Option 1 ID: 7155053632
Option 2 ID: 7155053629
Option 3 ID: 7155053630
Option 4 ID: 7155053631
Status: Answered

Status . Allswe

Given below are two statements: one is labelled as Assertion (A) and the other is labelled as Reason (R) Assertion (A) :a-halocarboxylic acid on reaction with dil NH3 gives good yield of a-amino carboxylic acid whereas the yield of amines is very low when prepared from alkyl halides. Reason (R): Amino acids exist in zwitter ion form in aqueous medium. In the light of the above statements, choose the correct answer from the options given below: Options 1.

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

- 2. (A) is not correct but (R) is correct
- 3. (A) is correct but (R) is not correct

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

Question Type: MCQ Question ID: 7155051217 Option 1 ID: 7155053666 Option 2 ID: 7155053668 Option 3 ID: 7155053667 Option 4 ID: 7155053665 Status: Answered Chosen Option: 1

Q.50 The complex cation which has two isomers is:

Options 1. $[Co(NH_3)_5Cl]^{2+}$

- ²· [Co(NH₃)₅NO₂]²⁺
- 3. [Co(NH₃)₅Cl]⁺
- 4. [Co(H2O)6]3+

Question Type: MCQ Question ID: 7155051210 Option 1 ID: 7155053640 Option 2 ID: 7155053639 Option 3 ID: 7155053637 Option 4 ID: 7155053638 Status: Answered

Chosen Option: 2

Section: Chemistry Section B

The molality of a 10% (v/v) solution of di-bromine solution in CCl₄ (carbon tetrachloride) is 'x'. = 10⁻² M. (Nearest integer)

[Given: molar mass of Br2 = 160 g mol atomic mass of C = 12 g mol-1 atomic mass of $CI = 35.5 \text{ g mol}^{-1}$ density of dibromine = 3.2 g cm⁻³ density of CCI4 = 1.6 g cm⁻²]

Given 1583 Answer:

> Question Type: SA Question ID: 7155051221 Status: Answered

cal		Question Type : SA Question ID : 7155051226
cal	South of Carling to the State of Carling Control of Carling Carling Control of Carling Co	
cal	South of Carling to Annual Control of Carling Contr	
cal	Secret Conference and Associate Secret Education Association (Conference Secret	Status : Answered
[G	3 g of ethane undergoes combustion at 27°C in a bumb cal- dorimeter system (including the water) is found to rise by 0 embustion of ethane at constant pressure iskf Searest integer) fiven: The heat capacity of the calorimeter system is 20 kf Assume ideal gas behaviour. Atomic mass of C and H are 12 and 1 g mof 1 respe	0.5° C. The heat evolved during mol^{-1} , K^{-1} , $R = 8.3 \text{ JK}^{-1} \text{ mol}^{-1}$.
Given Answer :		
		Question Type : SA
		Question ID : 7155051224
		Status : Not Answered
		Question Type : SA Question ID : 7155051227 Status : Not Answered
fre At- [G	2% of scetic acid is dissociated when its 5 g is added to 500 seeing point of such water is × 10 ⁻³ °C tomic mass of C, H and O are 12, 1 and 16 a.m.s. respective iven: Molal depression constant and density of water are 1 spectively.	dy.
Answer :		
		Question Type : SA
		Question ID : 7155051223 Status : Not Answered
wit for	metal M crystallizes into two lattices = face centred cubic (fcc ith unit cell edge length of 2.0 and 2.5 Å respectively. The ratio r the metal M is [carest integer]	
		Question Type : SA
		Question ID : 7155051222 Status : Not Answered

2.57 Among the following, the number of tranquilizer/s is/are _

- A. Chloroliazepoxide
- B. Veronal
- C. Valium
- D. Salvarsan

Given 2 Answer :

Question Type : SA

Question ID : **7155051229**Status : **Answered**

Q.58 Among following compounds, the number of those present in copper matte is _____

- A. CuCO;
- B. Cu₂S
- C. Cu₂O
- D. FeO

Given 3 Answer:

Question Type : SA

Question ID : **7155051228** Status : **Answered**

$$\lambda_{Ag}^{0} = 6 \times 10^{-3} \text{ S m}^{2} \text{ mol}^{-1}$$

$$h_{mr}^{B} = 8 \times 10^{-8} \text{ 5 m}^2 \text{ mol}^{-1}$$

$$h_{NO_3^+}^0 = 7 \times 10^{-3} \text{ S m}^2 \text{ mol}^{-3} \text{ J}$$

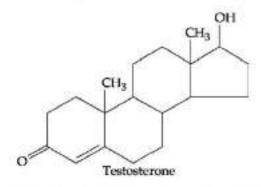
Given --

Answer:

Question Type: SA

Question ID : **7155051225**Status : **Not Answered**

Q.60 Testosterone, which is a steroidal hormone, has the following structure.



The total number of asymmetric carbon atom's in testosterone is ______

Given 13

Answer:

Question Type : SA

Question ID : **7155051230** Status : **Answered** Section: Mathematics Section A

Q.61 The number of integral values of k, for which one root of the equation $2x^2 - 8x + k = 0$ lies in the interval (1, 2) and its other root lies in the interval (2, 3), is:

Options 1. ()

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

Question Type : MCQ

Question ID: 7155051233

Option 1 ID: 7155053699

Option 2 ID: 7155053700

Option 3 ID: 7155053701

Option 4 ID: 7155053702

Status: Answered

Chosen Option: 3

Q.62 Let $\alpha x = \exp(x^{\beta}y^{\beta})$ be the solution of the differential equation $2x^2y \, dy - (1-xy^2) \, dx = 0$, x > 0, $y(2) = \sqrt{\log_2 2}$. Then $\alpha + \beta - \gamma$ equals:

Options 1. 3

- 2.]
- 3. 0
- 4. -1

Question Type : MCQ

Question ID: 7155051242

Option 1 ID: 7155053736

Option 2 ID: 7155053735

Option 3 ID: 7155053738

Option 4 ID: 7155053737 Status: Answered

Chosen Option: 3

Q.63 The area of the region given by $\{(x,y): xy \le 8, 1 \le y \le x^2\}$ is:

Options 1. 16
$$\log_e 2 - \frac{14}{3}$$

2.
$$16 \log_e 2 + \frac{7}{3}$$

3. $8 \log_e 2 - \frac{13}{3}$

3. 8
$$\log_e 2 - \frac{13}{3}$$

$$4.8 \log_e 2 + \frac{7}{6}$$

Question Type : MCQ

Question ID: 7155051241

Option 1 ID: 7155053732

Option 2 ID: 7155053734

Option 3 ID: 7155053733

Option 4 ID: 7155053731

Status: Answered

Q.64 Let 9 = x₁ < x₂ < ... < x₇ be in an A.P. with common difference d. If the standard deviation of x₁, x₂ ..., x₇ is 4 and the mean is \(\tilde{x}\), then \(\tilde{x} + x_0\) is equal to:

Options

$$1.2\left(9+\frac{8}{\sqrt{7}}\right)$$

2. 25

3.
$$18\left(1+\frac{1}{\sqrt{3}}\right)$$

4. 34

Question Type : MCQ

Question ID : 7155051247 Option 1 ID : 7155053757 Option 2 ID : 7155053755 Option 3 ID : 7155053758 Option 4 ID : 7155053756 Status : Answered

Chosen Option: 4

Q.65 For the system of linear equations $\alpha x + y + z = 1$, $x + \alpha y + z = 1$, $x + y + \alpha z = \beta$, which one of the following statements is NOT correct?

Options 1. It has no solution if $\alpha = -2$ and $\beta = 1$

2. It has infinitely many solutions if $\alpha = 1$ and $\beta = 1$

3.
$$x + y + z = \frac{3}{4}$$
 if $\alpha = 2$ and $\beta = 1$

4. It has infinitely many solutions if $\alpha = 2$ and $\beta = -1$

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

Question ID : 7155051235
Option 1 ID : 7155053708
Option 2 ID : 7155053707
Option 3 ID : 7155053710
Option 4 ID : 7155053709
Status : Answered
Chosen Option : 1

Q.66 Let P(S) denote the power set of $S = \{1, 2, 3,, 10\}$. Define the relations R_1 and R_2 on P(S) as AR_2B if $(A \cap B^c) \cup (B \cap A^c) = \emptyset$ and AR_2B if $A \cup B^c = B \cup A^c$, $\forall A, B \in P(S)$. Then:

Options 1. only R₁ is an equivalence relation

- 2. both R₁ and R₂ are not equivalence relations
- 3. both R₁ and R₂ are equivalence relations
- 4 only R2 is an equivalence relation

Question Type : MCQ

Question ID: 7155051231 Option 1 ID: 7155053692 Option 2 ID: 7155053694 Option 3 ID: 7155053691 Option 4 ID: 7155053693 Status: Answered

Q.67 Let $P(x_0, y_0)$ be the point on the hyperbola $3x^2 - 4y^2 = 36$, which is nessest to the line 3x + 2y = 1. Then $\sqrt{2} (y_0 - x_0)$ is equal to:

Options 1. –9

- 2. -3
- 3. 3
- 4. 9

Question Type : MCQ

Question ID : 7155051243

Option 1 ID: **7155053739** Option 2 ID: **7155053742**

Option 3 ID : **7155053741**

Option 4 ID: **7155053740**

Status: Not Answered

Chosen Option : --

Q.68 Let
$$S = \left\{ x \in \mathbb{R} : 0 < x < 1 \text{ and } 2 \tan^{-1} \left(\frac{1-x}{1+x} \right) = \cos^{-1} \left(\frac{1-x^2}{1+x^2} \right) \right\}.$$

If n(S) denotes the number of elements in S then:

Options 1. n(S) = 1 and the element in S is less than $\frac{1}{2}$.

- 2. n(S) = 0
- 3. n(S) = 1 and the elements in S is more than $\frac{1}{2}$.
- 4. n(S) = 2 and only one element in S is less than $\frac{1}{2}$.

Question Type: MCQ

Question ID: 7155051249

Option 1 ID: **7155053763**

Option 2 ID: 7155053764

Option 3 ID: **7155053766** Option 4 ID: **7155053765**

Status : **Answered**

Chosen Option : 1

Q.69 Let
$$\vec{a} = 2\vec{l} - 7\vec{l} + 5\vec{k}$$
, $\vec{b} = \vec{l} + \vec{k}$ and $\vec{c} = \vec{l} + 2\vec{l} - 3\vec{k}$ be three given vectors. If \vec{r} is a vector such that $\vec{c} \times \vec{a} = \vec{c} \times \vec{a}$ and $\vec{c} \cdot \vec{b} = 0$, then $|\vec{c}|$ is equal to :

Options 1. $\frac{11}{7}$

- 2. $\frac{11}{7}\sqrt{2}$
- 3. $\frac{11}{5}\sqrt{2}$
- 4. $\frac{\sqrt{914}}{7}$

Question Type: MCQ

Question ID : 7155051245

Option 1 ID: 7155053747

Option 2 ID: 7155053748

Option 3 ID: 7155053749

Option 4 ID: **7155053750**

Status : Answered

Q.70 Two dice are thrown independently. Let A be the event that the number appeared on the 1st die is less than the number appeared on the 2nd die, B be the event that the number appeared on the 1st die is even and that on the second die is odd, and C be the event that the number appeared on the 1st die is odd and that on the 2nd is even. Then:

Options 1. B and C are independent

the number of favourable cases of the events A, B and C are 15, 6 and 6 respectively

3. A and B are mutually exclusive

the number of favourable cases of the event (A ∪ B) ∩ C is 6

Question Type: MCQ
Question ID: 7155051246
Option 1 ID: 7155053752
Option 2 ID: 7155053751
Option 3 ID: 7155053753
Option 4 ID: 7155053754

Status : Answered

Chosen Option : 4

Q.71 Let a, b be two real numbers such that ab ≤ 0. If the complex number \(\frac{t+d}{4\pi}\) is of unit modulus and a + tb lies on the circle |x - t| = |2x|, then a possible value of \(\frac{t+d}{4\pi}\), where [t] is greatest integer function, is:

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

2. 1

3. **—** 1

 $4.\frac{1}{2}$

Question Type : MCQ

Question ID: 7155051232
Option 1 ID: 7155053695
Option 2 ID: 7155053698
Option 3 ID: 7155053697
Option 4 ID: 7155053696
Status: Answered

Chosen Option: 4

If
$$A = \frac{1}{2} \begin{bmatrix} 1 & \sqrt{3} \\ -\sqrt{3} & 1 \end{bmatrix}$$
, then:

Options 1. $A^{30} + A^{25} - A = I$

 $^{2} \cdot A^{30} = A^{25}$

 $^{3.}A^{30}+A^{25}+A=I$

 $^{4.}$ $A^{30} - A^{25} = 2I$

Question Type: MCQ

Question ID : 7155051234 Option 1 ID : 7155053706 Option 2 ID : 7155053703 Option 3 ID : 7155053705 Option 4 ID : 7155053704

Status: Answered

Q.73 Let the plane P pass through the intersection of the planes 2x + 3y - z = 2 and x + 2y + 3z = 6, and be perpendicular to the plane 2x + y - z + 1 = 0. If d is the distance of P from the point (-7, 1, 1). then d2 is equal to:

Options 1. 25

83

Question Type: MCQ

Question ID: 7155051244 Option 1 ID: 7155053746 Option 2 ID: 7155053743 Option 3 ID: 7155053744 Option 4 ID: 7155053745

Status : Answered Chosen Option : 1

Q.74

The value of the integral

$$\int_{\frac{\pi}{4}}^{\frac{\pi}{4}} \frac{x + \frac{\pi}{4}}{2 - \cos 2x} dx \text{ is :}$$

Options

2. $\frac{\pi^2}{3\sqrt{3}}$ 3. $\frac{\pi^2}{6}$ 4. $\frac{\pi^2}{12\sqrt{3}}$

Question Type : MCQ

Question ID: 7155051240 Option 1 ID: 7155053729 Option 2 ID: 7155053727 Option 3 ID: 7155053728 Option 4 ID: 7155053730 Status: Answered

Q.75 Let \(\hat{a} = 5\hat{i} - \hat{j} - 3\hat{k}\) and \(\hat{b} = \hat{i} + 3\hat{j} + 5\hat{k}\) be two vectors. Then which one of the following statements in TRUE?

Options 1.

Projection of \vec{a} on \vec{b} is $\frac{-17}{\sqrt{86}}$ and the direction of the projection vector is opposite to the direction

of E

2.

Projection of \vec{a} on \vec{b} in $\frac{17}{\sqrt{35}}$ and the direction of the projection vector is opposite to the direction

of h

3.

Projection of \vec{a} on \vec{b} is $\frac{17}{\sqrt{35}}$ and the direction of the projection vector is same as of \vec{b} .

4.

Projection of \vec{a} on \vec{b} is $\frac{-17}{\sqrt{35}}$ and the direction of the projection vector is same as of \vec{b} .

Question Type: MCQ

Question ID: **7155051248**Option 1 ID: **7155053760**Option 2 ID: **7155053762**Option 3 ID: **7155053761**

Option 4 ID : **7155053759**

Status : **Answered**

Chosen Option: 1

Q.76 If $y(x) = x^{x}$, x > 0, then y''(2) - 2y'(2) is equal to:

Options 1. $8 \log_e 2 - 2$

 $2.4 \log_{e} 2 + 2$

 $3.4 (\log_e 2)^2 + 2$

4. $4 (\log_{e} 2)^2 - 2$

Question Type : MCQ

Question ID : **7155051238** Option 1 ID : **7155053719**

Option 2 ID : **7155053721**

Option 4 ID: **7155053720**

Option 4 ID: 7155053722

Status: Answered

Q.77 Let $f: \mathbb{R} - \{0,1\} \to \mathbb{R}$ be a function such that $f(x) + f\left(\frac{1}{1-x}\right) = 1+x$. Then f(2) is equal to

Options 7

2. $\frac{7}{4}$

3. 2

4. $\frac{9}{4}$

Question Type : MCQ

Question ID : **7155051236**

Option 1 ID: **7155053713** Option 2 ID: **7155053714**

Option 3 ID : **7155053711** Option 4 ID : **7155053712**

Status : Answered

Chosen Option: 4

Q.78 The sum
$$\sum_{n=1}^{\infty} \frac{2n^2 + 3n + 4}{(2n)!}$$
 is equal to:

Options 1.
$$\frac{11e}{2} + \frac{7}{2e} - 4$$

$$2.\frac{13e}{4} + \frac{5}{4e} - 4$$

3.
$$\frac{11e}{2} + \frac{7}{2e}$$

$$4.\frac{13e}{4} + \frac{5}{4e}$$

Question Type: MCQ

Question ID: 7155051237

Option 1 ID: 7155053718

Option 2 ID: **7155053717**

Option 3 ID: 7155053716

Option 4 ID : 7155053715

Status : Answered

Chosen Option : 3

Q.79 Which of the following statements is a tautology?

Options 1. $p \lor (p \land q)$

2.
$$p \rightarrow (p \land (p \rightarrow q))$$

з.
$$(p \land (p \rightarrow q)) \rightarrow \sim q$$

$$^{4.}\left(p\wedge q\right) \rightarrow\left(\sim\!\left(p\right) \rightarrow q\right)$$

Question Type : MCQ

Question ID : **7155051250**

Option 1 ID : **7155053769**

Option 2 ID: **7155053767**

Option 3 ID : **7155053770** Option 4 ID : **7155053768**

Status : Answered

Q.80 The sum of the absolute maximum and minimum values of the function $f(x) = |x^2 - 5x + 6| - 3x + 2$ in the interval [-1, 3] is equal to:

Options 1. 12

- 2. 24
- 3. 13
- 4.10

Question Type : MCQ

Question ID: 7155051239 Option 1 ID: 7155053724 Option 2 ID: 7155053726 Option 3 ID: 7155053725 Option 4 ID: 7155053723 Status: Answered

Chosen Option : 4

Section: Mathematics Section B

Q.81 The point of intersection C of the plane 8x + y + 2z = 0 and the line joining the points A(-3, -6, 1) and B(2, 4, -3) divides the line segment AB internally in the ratio k: 1. If a, b, c (|a|, |b|, |c| are coprime) are the direction ratios of the perpendicular from the point C on the line \[\frac{1-x}{1} = \frac{y+4}{2} = \frac{z+2}{3}, \] then |a+b+c| is equal to _____.

Given --Answer :

Question Type : SA

Question ID : **7155051260** Status : **Not Answered**

Q.82 If the x-intercept of a focal chord of the parabola y² = 8x + 4y + 4 is 3, then the length of this chord is equal to ______.

Given 14 Answer:

Question Type : SA

Question ID : **7155051258** Status : **Answered**

Q.83 Number of integral solutions to the equation x + y + z = 21, where $x \ge 1$, $y \ge 3$, $z \ge 4$, is equal to

Given 0 Answer:

Question Type : SA

Question ID : **7155051255**Status : **Answered**

Q.84 If $\int_{0}^{\pi} \frac{5^{\cos x}(1+\cos x\cos 3x+\cos^2x+\cos^2x+\cos^2x\cos 3x)dx}{1+5^{\cos x}} = \frac{kx}{16}$, then k is equal to ______.

Given 2 Answer:

Question Type : SA

Question ID : **7155051256** Status : **Answered**

Q.85	The sum of the common terms of the following three 3, 7, 11, 15, , 399, 2, 5, 8, 11, , 359 and 2, 7, 12, 17, , 197, is equal to	arithmetic progressions.
Giver		
nswer	:	
		Question Type : SA
		Question ID : 7155051253
		Status : Answered
Q.86	The line $x = 8$ is the directrix of the ellipse $y: \frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ with the the tangent to E at the point P in the first quadrant passes through the x-axis at Q, then $(3PQ)^2$ is equal to	
Giver nswer		
		Question Type : SA
		Question ID : 7155051259
		Status : Not Answered
	If the term without x in the expansion of $\left(x^{\frac{2}{3}} + \frac{\alpha}{x^3}\right)^{22}$ is 7315	5, then α is equal to
Q.87 Giver	n	Question Type : SA Question ID : 7155051254
Giver	n	Question Type : SA
Giver	Let $mx + dy + yz = 1$ be the equation of a plane passing through the pergendicular to the line joining the points $(1, 2, 3)$ and $(-2, 3, 5)$. In-	Question Type : SA Question ID : 7155051254 Status : Not Answered e point (3, -2, 5) and Then the value of apy is equal to
Givernswer Q.88 Giver	Let $mx + dy + yz = 1$ be the equation of a plane passing through the pergendicular to the line joining the points $(1, 2, 3)$ and $(-2, 3, 5)$. In-	Question Type : SA Question ID : 7155051254 Status : Not Answered e point (3, -2, 5) and Then the value of afty is equal to Question Type : SA
Giver	Let $mx + dy + yz = 1$ be the equation of a plane passing through the pergendicular to the line joining the points $(1, 2, 3)$ and $(-2, 3, 5)$. In-	Question Type : SA Question ID : 7155051254 Status : Not Answered e point (3, -2, 5) and Then the value of apy is equal to
Giver Q.88 Giver nswer	Let $\operatorname{cor} + \beta y + yz = 1$ be the equation of a plane passing through the pergendicular to the line joining the points $(1,2,3)$ and $(-2,3,5)$. In Let the sixth term in the binomial expansion of $\sqrt{2^{\log_2 \left(x-y ^2 \right)}} + \sqrt{2}$ powers of $2^{\log_2 2}$, be 21. If the binomial coefficients of the set the expansion are respectively the first, third and fifth terms of an λ of all possible values of x is	Question Type : SA Question ID : 7155051254 Status : Not Answered e point (3, -2, 5) and Then the value of afty is equal to Question Type : SA Question ID : 7155051257 Status : Not Answered
Giver nswer Q.88 Giver nswer	Let $\operatorname{nr} + \beta y + yz = 1$ be the equation of a plane passing through the pergendicular to the line joining the points $(1,2,3)$ and $(-2,3,5)$. In Let the sixth term in the binomial expansion of $\left[\sqrt{\frac{\log_2\left(16-3^k\right)}{2}} + \sqrt{2}\right]$ powers of $2^{\log_2\left(26-3^k\right)}$, be 21. If the binomial coefficients of the set the expansion are respectively the first, third and fifth terms of an λ of all possible values of x is	Question Type : SA Question ID : 7155051254 Status : Not Answered e point (3, -2, 5) and Then the value of afty is equal to Question Type : SA Question ID : 7155051257 Status : Not Answered
Giver Q.88 Giver Answer	Let $\operatorname{nr} + \beta y + yz = 1$ be the equation of a plane passing through the pergendicular to the line joining the points $(1,2,3)$ and $(-2,3,5)$. In Let the sixth term in the binomial expansion of $\left[\sqrt{\frac{\log_2\left(16-3^k\right)}{2}} + \sqrt{2}\right]$ powers of $2^{\log_2\left(26-3^k\right)}$, be 21. If the binomial coefficients of the set the expansion are respectively the first, third and fifth terms of an λ of all possible values of x is	Question Type: SA Question ID: 7155051254 Status: Not Answered e point (32, 5) and Then the value of ofly is equal to Question Type: SA Question ID: 7155051257 Status: Not Answered Figure 1 in the increming cound, third and fourth terms in A.P. then the sum of the squares
Giver nswer Q.88 Giver nswer	Let $\operatorname{nr} + \beta y + yz = 1$ be the equation of a plane passing through the pergendicular to the line joining the points $(1,2,3)$ and $(-2,3,5)$. In Let the sixth term in the binomial expansion of $\left[\sqrt{\frac{\log_2\left(16-3^k\right)}{2}} + \sqrt{2}\right]$ powers of $2^{\log_2\left(26-3^k\right)}$, be 21. If the binomial coefficients of the set the expansion are respectively the first, third and fifth terms of an λ of all possible values of x is	Question Type : SA Question ID : 7155051254 Status : Not Answered e point (3, -2, 5) and Then the value of afty is equal to Question Type : SA Question ID : 7155051257 Status : Not Answered

Q.90 The total number of six digit numbers, formed using the digits 4, 5, 9 only and divisible by 6, is

Given 2
Answer:

Question Type: SA
Question ID: 7155051251
Status: Answered