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

Application No	
Candidate Name	
Roll No	
Test Date	25/01/2023
Test Time	3:00 PM - 6:00 PM
Subject	В ТЕСН

Section: Physics Section A

According to law of equipartition of energy the molar specific heat of a diatomic gas at constant volume where the molecule has one additional vibrational mode is:-

Options

- 1. $\frac{3}{2}R$

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

Question ID: 7155051623 Option 1 ID: 7155054872 Option 2 ID: 7155054869 Option 3 ID: 7155054871 Option 4 ID: 7155054870 Status: Answered

Chosen Option: 4

- The light rays from an object have been reflected towards an observer from a standard flat marror. the image observed by the observer are:-
 - A. Real
 - B. Erect
 - C. Smaller in size then object
 - D. Laterally inverted

Choose the most appropriate answer from the options given below:

Options 1. A, C, and D Only

- 2. A and D Only
- 3. B and D Only
- 4. B and C Only

Question Type: MCQ

Question ID: 7155051629 Option 1 ID: 7155054896 Option 2 ID: 7155054894 Option 3 ID: 7155054893 Option 4 ID: 7155054895

Not Attempted and Status:

Q.3 A particle executes simple harmonic motion between x = -A and x = +A. If time taken by particle to go from x = 0 to $\frac{A}{2}$ is 2 x; then time taken by particle in going from $x = \frac{A}{2}$ to A in

Options 1. 3 S

2. 1.5 s

3. 2 s

4. 4 s

Question Type : MCQ

Question ID: 7155051624 Option 1 ID: 7155054874 Option 2 ID: 7155054873 Option 3 ID: 7155054876 Option 4 ID: 7155054875

Status : Not Attempted and Marked For Review

Chosen Option : --

Match List I with List II

LIST I			LIST II		
A.	Isothermal Process	L	Work done by the gas decreases internal energy		
В.	Adiabatic Process	II.	No change in internal energy		
C.	Isochoric Process	III.	The heat absorbed goes partly to increase internal energy and partly to do work		
D.	Isobaric Process	IV.	No work is done on or by the gas		

Choose the correct answer from the options given below:

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

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

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

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

Question Type: MCQ

Question ID: 7155051622

Option 1 ID: 7155054867

Option 2 ID: 7155054868

Option 3 ID: 7155054865 Option 4 ID: 7155054866

Status : **Answered**

Chosen Option: 2

The resistance of a wire is 5 Ω . It's new resistance in ohm if stretched to 5 times of it's original Q.5 length will be:

Options 1. 5

2.625

3.125

4.25

Question Type: MCQ

Question ID: 7155051633

Option 1 ID: 7155054911

Option 2 ID: 7155054912

Option 3 ID: 7155054910

Option 4 ID: 7155054909 Status: Answered

Consider a block kept on an inclined plane (inclined at 45°) as shown in the figure. If the force required to just push it up the incline is 2 times the force required to just prevent it from sliding down, the coefficient of friction between the block and inclined plane(µ) is equal to :



Options 1. 0.50

2. 0.33

3.0.60

4.0.25

Question Type: MCQ

Question ID: 7155051638 Option 1 ID: 7155054931 Option 2 ID: 7155054930 Option 3 ID: 7155054932 Option 4 ID: 7155054929 Status: Not Answered

Chosen Option: --

Q.7 Match List I with List II

2	LIST I		LIST II
A.	Young's Modulus (Y)	I.	$[M L^{-1} T^{-1}]$
B.	Co-efficient of Viscosity (η)	II.	$[M L^2 T^{-1}]$
C.	Planck's Constant (h)	III.	$[M L^{-1} T^{-2}]$
D.	Work Function (φ)	IV.	$[M L^2 T^{-2}]$

Choose the correct answer from the options given below:

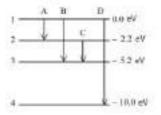
Options 1. A-II, B-III, C-IV, D-I

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

Question Type: MCQ

Question ID: 7155051621 Option 1 ID: 7155054861 Option 2 ID: 7155054863 Option 3 ID: 7155054864 Option 4 ID: 7155054862 Status: Answered

- 02/02/2023, 22:11
 - Q.8 The energy levels of an atom is shown in figure.



Which one of these transitions will result in the emission of a photon of wavelength 124.1mm?

Given th = 6.62×10^{-34} July

Options 1.

- 2. **B**
- 3. A
- 4. D

Question Type: MCQ

Question ID: 7155051627 Option 1 ID: 7155054887 Option 2 ID: 7155054886 Option 3 ID: 7155054885 Option 4 ID: 7155054888 Status: Answered

Chosen Option: 4

Q.9 Given below are two statements

Statement I: Stopping potential in photoelectric effect does not depend on the power of the light

Statement II: For a given metal, the maximum kinetic energy of the photoelectron depends on the wavelength of the incident light.

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

Options 1. Both Statement I and Statement II are incorrect

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

Question Type: MCQ

Question ID: 7155051628 Option 1 ID: 7155054890 Option 2 ID: 7155054892 Option 3 ID: 7155054889 Option 4 ID: 7155054891

Status: Answered Chosen Option: 3

Q.10 A wire of length 1m moving with velocity 8 m/s at right angles to a magnetic field of 2T. The magnitude of induced emf, between the ends of wire will be

Options 1. 16 V

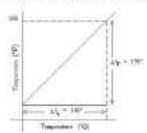
- 2.8 V
- 3.12 V
- 4.20 V

Question Type : MCQ

Question ID: 7155051631 Option 1 ID: 7155054902 Option 2 ID: 7155054904 Option 3 ID: 7155054903 Option 4 ID: 7155054901

Status: Answered

Q.11 The graph between two temperature scales P and Q is shown in the figure. Between upper fixed point and lower fixed point there are 150 equal divisions of scale P and 100 divisions on scale Q. The relationship for conversion between the two scales is given by:-



Options

1.
$$\frac{t_Q}{100} = \frac{t_P - 30}{150}$$

$$2 \cdot \frac{t_Q}{150} = \frac{t_P - 180}{100}$$

$$3 \cdot \frac{t_P}{100} = \frac{t_Q - 180}{150}$$

$$4 \cdot \frac{t_P}{180} - \frac{t_Q - 40}{100}$$

4.
$$\frac{t_p}{180} - \frac{t_Q - 40}{100}$$

Question Type: MCQ

Question ID: 7155051635 Option 1 ID: 7155054918

Option 2 ID: 7155054917 Option 3 ID: 7155054919 Option 4 ID: 7155054920

Status: Answered

Chosen Option: 1

- Q.12 Every planet revolves around the sun in an elliptical orbit:-
 - A. The force acting on a planet is inversely proportional to square of distance from sun.
 - B. Force acting on planet is inversely proportional to product of the masses of the planet and the
 - C. The Centripetal force acting on the planet is directed away from the sun.
 - D. The square of time period of revolution of planet around run is directly proportional to cube of semi-major axis of elliptical orbit.

Choose the correct answer from the options given below:

Options 1. B and C only

- 2. A and C Only
- 3. A and D only
- 4. C and D only

Question Type: MCQ

Question ID: 7155051637

Option 1 ID: 7155054927

Option 2 ID: 7155054925 Option 3 ID: 7155054926

Option 4 ID: 7155054928

Status: Answered

Q.13 Match List I with List II

	LIST I		LIST II
A.	Troposphere	I	Approximate 65-75 km over Earth's surface
B.	E- Part of Stratosphere	П	Approximate 300 km over Earth's surface
C.	F2- Part of Thermosphere	Ш.	Approximate 10 km over Earth's surface
			Approximate 100 km over Earth's surface

Choose the correct answer from the options given below:

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

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

Question Type: MCQ

Question ID: 7155051625 Option 1 ID: 7155054879 Option 2 ID: 7155054878 Option 3 ID: 7155054877 Option 4 ID: 7155054880

Status: Answered

Chosen Option: 2

Q.14 A body of mass is taken from earth surface to the height h equal to twice the radius of earth (Ra). the increase in potential energy will be

(g = acceleration due to gravity on the surface of Earth)

Options 1. 3 mgR_e

$$2.\frac{1}{3}mgR_{e}$$

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

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

Question Type : MCQ

Question ID: 7155051636 Option 1 ID: 7155054924 Option 2 ID: 7155054923 Option 3 ID: 7155054922 Option 4 ID: 7155054921 Status: Answered

Q.15 For a moving coil galvanometer, the deflection in the coil is 0.05 rad when a current of 10 mA is passed through it. If the torsional constant of suspension wire is 4.0×10^{-5} N m and $^{-1}$, the magnetic field is 0.01T and the number of turns in the coil is 200, the area of each turn (in cm2) is :

Options 1. 1.0

- 2.2.0
- 3.1.5
- 4.0.5

Question Type: MCQ

Question ID: 7155051632 Option 1 ID: 7155054906 Option 2 ID: 7155054908 Option 3 ID: 7155054907 Option 4 ID: 7155054905

Status: Answered

Chosen Option: 1

Statement I: When a Si sample is doped with Boron, it becomes P type and when doped by Q.16 Arsenic at becomes N-type semi conductor such that P-type has excess holes and N-type has excess electrons.

Statement II: When such P-type and N-type semi-conductors, are fused to make a junction, a current will automatically flow which can be detected with an externally connected ammeter.

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

Options 1. Both Statement I and Statement II are incorrect

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

Question Type : MCQ

Question ID: 7155051626 Option 1 ID: 7155054882

Option 2 ID: 7155054881 Option 3 ID: 7155054884

Option 4 ID: 7155054883

Status: Answered Chosen Option: 2

Q.17 A point charge of 10 µC is placed at the origin. At what location on the X-axis should a point charge of 40 μ C be placed so that the net electric field is zero at x = 2cm on the X-axis?

Options 1. $\chi = -4$ cm

- 2. x = 8 cm
- 3. x = 6 cm
- 4. x = 4 cm

Question Type: MCQ

Question ID: 7155051634

Option 1 ID: 7155054916 Option 2 ID: 7155054915

Option 3 ID: 7155054914 Option 4 ID: 7155054913

Status: Answered

Q.18 The distance travelled by a particle is related to time t as $x = 4c^2$. The velocity of the particle at x = 5:

Options 1. 20ms⁻¹

- ^{2.} 40ms⁻¹
- $^{3.}\,8{\rm ms}^{-1}$
- 4. 25ms⁻¹

Question Type: MCQ

Question ID: 7155051639 Option 1 ID: 7155054935 Option 2 ID: 7155054934 Option 3 ID: 7155054933 Option 4 ID: 7155054936

Status: Answered

Chosen Option: 2

Q.19 Two objects are projected with same velocity 's' however at different angles α and β with the horizontal. If $sc \in \beta = 50^\circ$, the ratio of horizontal range of the first object to the 2nd object will be :

Options 1. 1:1

- 2.1:2
- 3. 2:1
- 4.4:1

Question Type : MCQ

Question ID: 7155051640 Option 1 ID: 7155054937 Option 2 ID: 7155054940 Option 3 ID: **7155054938** Option 4 ID: 7155054939 Status: Answered

Q.20 Match List I with List II

4) (1)	LIST I	9	LIST II
A.	Gauss's Law in Electrostatics	I.	$\oint \vec{E} \cdot d\vec{l} = -\frac{d\phi_B}{dt}$
В.	Faraday's Law	II.	$\oint \vec{B} \cdot d\vec{A} = 0$
C.	Gauss's Law in Magnetism	5 /	$\oint \vec{B} \cdot d\vec{l} = \mu_0 i_c + \mu_0 \in \frac{d\phi_E}{dt}$
D.	Ampere-Maxwell Law	IV.	$\oint \vec{E} \cdot d\vec{s} = \frac{q}{\epsilon_0}$

Choose the correct answer from the options given below:

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

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

Question Type: MCQ

Question ID: 7155051630 Option 1 ID: 7155054898 Option 2 ID: 7155054897 Option 3 ID: 7155054899 Option 4 ID: 7155054900

Status: Answered Chosen Option: 4

Section: Physics Section B

A series LCR circuit is connected to an AC source of 220 V, 50 Hz. The circuit contains a resistance $R = 80\Omega$, an inductor of inductive reactance $X_{f_i} = 70\Omega$, and a capacitor of capacitive reactance

 $X_C = 130\Omega$. The power factor of circuit is $\frac{\pi}{10}$. The value of x is :

Given --Answer:

Question Type : SA

Question ID: 7155051643 Status: Not Answered

Two long parallel wires carrying currents BA and 15A in opposite directions are placed at a distance Q.22 of 7cm from each other. A point P is at equidistant from both the wares such that the lines joining the point P to the wires are perpendicular to each other. The magnitude of magnetic field at P in

× 10 6 T

(Given: $\sqrt{2} = 1.4$)

Given --Answer:

Question Type : SA

Question ID: 7155051644 Status: Not Answered

	collision, the smaller body reverses its direction of motion initial speed of the smaller body before collision is	
Give		
nswer	:	
		Question Type : SA
		Question ID: 7155051647
		Status : Not Answered
Q.24	A nucleus disintegrates into two smaller parts, which have I	hair value into ratio 3-1. The ratio
₹. ∠→		and years and the toric year and arrive
	of their nuclear sizes will be $\left(\frac{L}{3}\right)^{\frac{1}{3}}$. The value of 'x' is:-	
Give		
nswer		
		Question Type : SA
		Question ID : 7155051641
		Status : Not Answered
Q.25	If a solid sphere of mass 5kg and a disc of mass 4kg have	e the same radius. Then the ratio of
Q.25	moment of inertin of the disc about a tangent in its plane	
	about its tangent will be $\frac{x}{7}$. The the value of x is	
Give nswer		
iiowci	•	
		Question Type : SA
		Question ID : 7155051648
		Status : Not Answered
O 26	A capacitor has capacitance SuF when it's parallel plates an	e securated by air medium of thickness
Q.26	A capacitor has capacitance 5µF when it's parallel plates and. A slab of material of dielectric constant 1.5 having area e	
Q.26	d. A slab of material of dielectric constant 1.5 laiving area e inserted between the plates. Capacitance of the capacitor in	equal to that of plates but thickness $\frac{d}{2}$ is
Q.26	d. A slab of material of dielectric constant 1,5 having area e	equal to that of plates but thickness $\frac{d}{2}$ is
Give	 d. A slab of material of dielectric constant 1.5 having area e inserted between the plates. Capacitance of the capacitor in	equal to that of plates but thickness $\frac{d}{2}$ is
Give	 d. A slab of material of dielectric constant 1.5 having area e inserted between the plates. Capacitance of the capacitor in	equal to that of plates but thickness $\frac{d}{2}$ is
Give	 d. A slab of material of dielectric constant 1.5 having area e inserted between the plates. Capacitance of the capacitor in	equal to that of plates but thickness $\frac{d}{2}$ is
Give	 d. A slab of material of dielectric constant 1.5 having area e inserted between the plates. Capacitance of the capacitor in	equal to that of plates but thickness $\frac{d}{2}$ in the presence of slab will be
Give	 d. A slab of material of dielectric constant 1.5 having area e inserted between the plates. Capacitance of the capacitor in	equal to that of plates but thickness $\frac{d}{2}$ is the presence of slab will be Question Type : SA
Give	d. A slab of material of dielectric constant 1.5 having area e inserted between the plates. Capacitance of the capacitor in	Question Type : SA Question ID : 7155051646 Status : Not Answered
Give nswer	d. A slab of material of dielectric constant 1.5 having area e inserted between the plates. Capacitance of the capacitor in	Question Type : SA Question ID : 7155051646 Status : Not Answered
Give	d. A slab of material of dielectric constant 1.5 having area e inserted between the plates. Capacitance of the capacitor in	Question Type : SA Question ID : 7155051646 Status : Not Answered
Give nswer	d. A slab of material of dielectric constant 1.5 having area e inserted between the plates. Capacitance of the capacitor in	Question Type : SA Question ID : 7155051646 Status : Not Answered
Give nswer Q.27	d. A slab of material of dielectric constant 1.5 having area e inserted between the plates. Capacitance of the capacitor in ——————————————————————————————————	Question Type : SA Question ID : 7155051646 Status : Not Answered
Give nswer	d. A slab of material of dielectric constant 1.5 having area e inserted between the plates. Capacitance of the capacitor in ——————————————————————————————————	Question Type : SA Question ID : 7155051646 Status : Not Answered an observer standing on the platform at a sill be (given speed of sound = 330 ms ⁻
Give Answer Q.27	d. A slab of material of dielectric constant 1.5 having area e inserted between the plates. Capacitance of the capacitor in ——————————————————————————————————	Question Type : SA Question ID : 7155051646 Status : Not Answered Question Type : SA Question ID : 7155051646 Status : Not Answered
Give Answer	d. A slab of material of dielectric constant 1.5 having area e inserted between the plates. Capacitance of the capacitor in ——————————————————————————————————	Question Type : SA Question ID : 7155051646 Status : Not Answered an observer standing on the platform at a sill be (given speed of sound = 330 ms ⁻

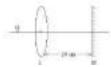
Two cells are connected between points A and B as shown. Cell 1 has emf of 12 V and internal resistance of 3Ω . Cell 2 has emf of 6V and internal resistance of 6Ω . An external resistor R of 4Ω is connected across A and B. The current flowing through R will be

Given --Answer:

Question Type: SA

Question ID: 7155051645 Status: Not Answered

An object is placed on the principal axis of convex lens of focal length 10cm as shown. A plane Q.29 mirror is placed on the other side of lens at a distance of 20 cm. The image produced by the plane mirror is 5cm inside the mirror. The distance of the object from the lens is _



Given --Answer:

Question Type: SA

Question ID: 7155051642 Status: Not Answered

Q.30 A spherical drop of liquid splits into 1000 identical spherical drops. If u_i is the surface energy of the original drop and sq is the total surface energy of the resulting drops, the (ignoring evaporation),

$$\frac{w_f}{w_c} = \left(\frac{10}{\kappa}\right)$$
. Then value of π is ________:

Given --Answer:

Question Type: SA

Question ID: 7155051649 Status: Not Answered

Section: Chemistry Section A

Q.31 Potassium dichaomate acts as a strong oxidizing agent in acidic solution. During this process, the oxidation state changes from

Options 1. +6 to +3

2. + 6 to + 2

3. + 3 to + 1

4. + 2 to + 1

Question Type: MCQ

Question ID: 7155051659

Option 1 ID: 7155054985

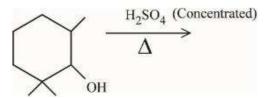
Option 2 ID: 7155054986

Option 3 ID: 7155054983

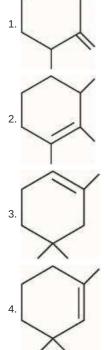
Option 4 ID: 7155054984

Status : Not Attempted and Marked For Review

Q.32 Find out the major product from the following reaction.



Options



Question Type : MCQ

Question ID: 7155051665

Option 1 ID: 7155055009 Option 2 ID: **7155055008**

Option 3 ID: 7155055010

Option 4 ID: 7155055007

Status: Not Answered

Q.33 Match List I with List II

LIST I Coordination entity			LIST II				
		Wavelength of light absorbed in nm					
A.	[CoCl(NH ₃) ₅] ²⁺	I.	310				
В.	[Co(NH ₃) ₆] ³⁺	II.	475				
C.	[Co(CN) ₆] ³⁻	III.	535				
D.	[Cu(H ₂ O) ₄] ²⁺	IV.	600				

Choose the correct answer from the options given below:

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

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

Question Type: MCQ

Question ID: 7155051660 Option 1 ID: 7155054988 Option 2 ID: 7155054989 Option 3 ID: 7155054990 Option 4 ID: 7155054987 Status: Answered

Chosen Option: 4

Q.34 Statement I: Dipole moment is a vector quantity and by convention it is depicted by a small arrow with tail on the negative centre and head pointing towards the positive centre.

Statement II: The crossed arrow of the dipole moment symbolizes the direction of the shift of charges in the molecules.

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

Options 1. Both Statement I and Statement II are correct

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

Question Type : MCQ

Question ID: 7155051652

Option 1 ID: 7155054955

Option 2 ID: 7155054957

Option 3 ID: 7155054956

Option 4 ID: 7155054958

Not Attempted and Status : Not Attempted : Marked For Review

Q.35 Which one among the following metals is the weakest reducing agent?

Options 1. Rb

- 2. **Li**
- 3. K
- 4. Na

Question Type: MCQ

Question ID: 7155051657 Option 1 ID: 7155054978 Option 2 ID: 7155054975 Option 3 ID: 7155054977 Option 4 ID: 7155054976

Status: Answered

Chosen Option: 1

Q.36 Match List I with List II

LIST I		LIST II		
A.	Cobalt catalyst	I.	(H ₂ + Cl ₂) production	
B.	Syngas	II.	Water gas production	
C.	Nickel catalyst	III.	Coal gasification	
D.	Brine solution	IV.	Methanol production	

Choose the correct answer from the options given below:

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

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

Question Type: MCQ

Question ID: 7155051656 Option 1 ID: 7155054972 Option 2 ID: 7155054973 Option 3 ID: 7155054974

Option 4 ID: 7155054971

Status : Not Attempted and Marked For Review

Chosen Option: --

Q.37 Which of the following represents the correct order of metallic character of the given elements?

Options 1. Be < Si < K < Mg

- 2. $K \le Mg \le Be \le Si$
- 3. Be \leq Si \leq Mg \leq K
- 4. $Si \le Be \le Mg \le K$

Question Type : MCQ

Question ID: 7155051654 Option 1 ID: 7155054966

Option 2 ID: 7155054964

Option 3 ID: 7155054965 Option 4 ID: 7155054963

Status: Not Answered

Q.38 Given below are two statements:

Statement I: In froth floatation method a rotating paddle agitates the mixture to drive air out of it.

Statement II: Iron pyrites are generally avoided for extraction of iron due to environmental

In the light of the above statements, choose the correct suswer 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. Both Statement I and Statement II are true
- 4. Statement I is false but Statement II is true

Question Type: MCQ

Question ID: 7155051655 Option 1 ID: 7155054968 Option 2 ID: 7155054969 Option 3 ID: 7155054967 Option 4 ID: 7155054970 Not Attempted and

Marked For Review

Status: Chosen Option: --

Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason Q.39

Assertion A: The alkali metals and their salts impart characteristic colour to reducing flame.

Reason R: Alkali metals can be detected using flame tests.

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

Options 1. A is not correct but R is correct

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

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

4. A is correct but R is not correct

Question Type: MCQ

Question ID: 7155051662 Option 1 ID: 7155054998 Option 2 ID: 7155054995 Option 3 ID: 7155054996 Option 4 ID: 7155054997 Status: Answered

Q.40 Match List I with List II

	LIST I (Name of polymer)		LIST II (Uses)
A.	Glyptal	I.	Flexible pipes
B.	Neoprene	II.	Synthetic wool
C.	Acrilan	III.	Paints and Lacquers
D.	LDP	IV.	Gaskets

Choose the correct answer from the options given below:

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

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

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

Question ID: 7155051669 Option 1 ID: 7155055026 Option 2 ID: 7155055024 Option 3 ID: 7155055025

Option 4 ID: 7155055023 Status: Answered

Chosen Option: 2

Q.41 What is the mass ratio of ethylene glycol ($C_2H_6O_2$, molar mass = 62 g/mol) required for making 500 g of 0.25 molal aqueous solution and 250 mL of 0.25 molal aqueous solution?

Options 1. 3:1

- 2.1:2
- 3. 2:1
- 4.1:1

Question Type: MCQ

Question ID: 7155051651

Option 1 ID: 7155054954

Option 2 ID: 7155054951

Option 3 ID: 7155054953 Option 4 ID: 7155054952

Status: Answered

Q.42 Match List I with List II

2:	LIST I (Amines)	L	IST II (pK _b)
A.	Aniline	I.	3.25
B.	Ethanamine	II.	3.00
C.	N-Ethylethanamine	III.	9.38
D.	N, N-Diethylethanamine	IV.	3.29

Choose the correct answer from the options given below:

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

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

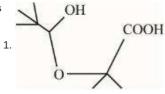
Question Type : $\boldsymbol{\mathsf{MCQ}}$

Question ID: 7155051667 Option 1 ID: **7155055015** Option 2 ID: 7155055016 Option 3 ID: 7155055017 Option 4 ID: 7155055018

Status: Answered

Q.43 'A' in the given reaction is

Options



2
 OH \sim 0 \sim 0

Question Type : MCQ

Question ID: 7155051666

Option 1 ID: 7155055013

Option 2 ID: 7155055012 Option 3 ID: 7155055014

Option 4 ID: 7155055011

Status: Not Answered

Q.44 Match List I with List II

2)	LIST I		LIST II
	Isomeric pairs	-	Type of isomers
A.	Propanamine and N-Methylethanamine	I.	Metamers
B.	Hexan-2-one and Hexan-3-one	II.	Positional isomers
C.	Ethanamide and Hydroxyethanimine	III.	Functional isomers
D.	o-nitrophenol and p-nitrophenol	IV.	Tautomers

Choose the correct answer from the options given below:

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

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

Question Type: MCQ

Question ID: 7155051664 Option 1 ID: 7155055004 Option 2 ID: 7155055003 Option 3 ID: 7155055005 Option 4 ID: 7155055006 Status: Answered

Chosen Option: 1

Q.45 Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason

Assertion A: Carbon forms two important oxides - CO and CO2. CO is neutral whereas CO2 is acidic in nature

Reason R: CO2 can combine with water in a limited way to form carbonic acid, while CO is sparingly soluble in water

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

Options 1

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

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

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

Question Type: MCQ

Question ID: 7155051658 Option 1 ID: 7155054979 Option 2 ID: 7155054980 Option 3 ID: 7155054982 Option 4 ID: 7155054981 Status: Answered

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Q.46 The inomeric deuterated bromide with molecular formula C<sub>4</sub>H<sub>8</sub>DBr having two chiral carbon atoms
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Options 1. 2 - Bromo - 1 - deutero - 2 - methylpropane

- 2. 2 Bromo 3 deuterobutane
- 3. 2 Bromo 1 deuterobutane
- 4. 2 Bromo 2 deuterobutane

Question Type : MCQ

Question ID: 7155051668
Option 1 ID: 7155055021
Option 2 ID: 7155055020
Option 3 ID: 7155055019
Option 4 ID: 7155055022
Status: Answered

Chosen Option: 4

Q.47 When the hydrogen ion concentration [H⁺] changes by a factor of 1000, the value of pH of the solution.

Options 1. decreases by 2 units

- 2. increases by 2 units
- 3. decreases by 3 units
- 4. increases by 1000 units

Question Type: MCQ

Question ID: 7155051653
Option 1 ID: 7155054959
Option 2 ID: 7155054962
Option 3 ID: 7155054961
Option 4 ID: 7155054960
Status: Answered

Chosen Option: 3

Q.48 A chloride salt solution acidified with dil.HNO₃ gives a curdy white precipitate, [A], on addition of AgNO₃. [A] on treatment with NH₄OH gives a clear solution, B. A and B are respectively

Options 1. $H[AgCl_3] \& [Ag(NH_3)_2]Cl$

- 2. AgCl & [Ag(NH₃)₂]Cl
- 3. $H[AgCl_3] & (NH_4)[Ag(OH)_2]$
- 4. AgCl & (NH₄)[Ag(OH)₂]

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

Question ID : 7155051663 Option 1 ID : 7155055000 Option 2 ID : 7155055001 Option 3 ID : 7155055002 Option 4 ID : 7155054999

Status : Not Attempted and Marked For Review

- Q.49 A. Ammonium salts produce haze in atmosphere.
 - B. Ozone gets produced when atmospheric oxygen reacts with chlorine radicals.
 - C. Polychlorinated biphenyls act as cleansing solvents.
 - D. 'Blue baby' syndrome occurs due to the presence of excess of sulphate ions in water.

Choose the correct answer from the options given below:

Options 1. A and D only

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

Question Type: MCQ

Question ID: 7155051661 Option 1 ID: 7155054991 Option 2 ID: 7155054994 Option 3 ID: 7155054993 Option 4 ID: 7155054992

Status: Answered

Chosen Option: 1

Q.50 Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A: Butylated hydroxy anisole when added to butter increases its shelf life.

Reason R: Butylated hydroxy anisole is more reactive towards oxygen than food.

In the light of the above statements, choose the most appropriate 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: 7155051670
Option 1 ID: 7155055030
Option 2 ID: 7155055028
Option 3 ID: 7155055027
Option 4 ID: 7155055029
Status: Not Answered

Chosen Option : --

Section : Chemistry Section B

Q.51 Number of hydrogen atoms per molecule of a hydrocurbon A having 85.8 % carbon is ______ (Given: Molar mass of A = 84 g mol⁻¹)

Given 12

Answer :

Question Type : SA

Question ID : **7155051679** Status : **Answered**

Q.56	The number of given orbitals which have electron density along the axis is
	po po po don don don don dol do 2 - 2

Given --Answer:

Question Type: SA

Question ID: 7155051672

Status : Not Attempted and Marked For Review

- Q.57 The number of incorrect statement/s from the following is/are
 - A. Water vapours are adsorbed by anhydrous calcium chloride.
 - B. There is a decrease in surface energy during adsorption.
 - C. As the adsorption proceeds, ΔH becomes more and more negative.
 - D. Adsorption is accompanied by decrease in entropy of the system.

Given --Answer:

> Question Type: SA Question ID: 7155051677

> > Status: Not Answered

Number of compounds giving (i) red colouration with ceric ammonium nitrate and also (ii) positive Q.58 iodoform test from the following is

Given --Answer:

Question Type: SA

Question ID: 7155051680

Not Attempted and Status: Marked For Review

$Pt(s)|H_2(g)(1bar)|H^+(aq)(1M)||M^{3+}(aq),M^+(aq)|Pt(s)$ Q.59

The Ecoll for the given cell is 0.1115 V at 298 K when

The value of a is

Given:
$$E_{M}^{\theta_{M}^{3+}/M^{+}} = 0.2 \text{ V}$$

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

Given 8.28 Answer:

Question Type: SA

Ouestion ID: 7155051675 Status: Answered

A first order reaction has the rate constant, k = 4.6 × 10⁻³ s⁻¹. The number of correct statement/) Q.60 from the following is are

Given: log 3 = 0.48

- A. Reaction completes in 1000 a
- B. The reaction has a half-life of 500 s.
- C. The time required for 10% completion is 25 times the time required for 90% completion.
- D. The degree of dissociation is equal to $(1 e^{-kt})$
- E. The rate and the rate constant have the same unit.

Given --Answer:

Question Type : SA

Question ID: 7155051676

Not Attempted and Status:

Marked For Review

Section: Mathematics Section A

Q.61 The number of numbers, strictly between 5000 and 10000 can be formed using the digits 1,3,5,7,9 without repetition, is

Options 1. 12

- 2.120
- 3.6
- 4.72

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

Question ID: 7155051686

Option 1 ID: 7155055063

Option 2 ID: 7155055064

Option 3 ID: 7155055061 Option 4 ID: 7155055062

Status: Not Answered

Let
$$A = \begin{bmatrix} \frac{1}{\sqrt{10}} & \frac{3}{\sqrt{10}} \\ \frac{-3}{\sqrt{10}} & \frac{1}{\sqrt{10}} \end{bmatrix}$$
 and $B = \begin{bmatrix} 1 & -i \\ 0 & 1 \end{bmatrix}$, where $i = \sqrt{-1}$.

If $M = A^TB A$, then the inverse of the matrix $AM^{2023}A^T$ is

Options
$$\begin{bmatrix}
1 & -2023i \\
0 & 1
\end{bmatrix}$$
2.
$$\begin{bmatrix}
1 & 2023i \\
0 & 1
\end{bmatrix}$$
3.
$$\begin{bmatrix}
1 & 0 \\
2023i & 1
\end{bmatrix}$$
4.
$$\begin{bmatrix}
1 & 0 \\
-2023i & 1
\end{bmatrix}$$

Question Type: MCQ

Question ID: 7155051684

Option 1 ID: 7155055053 Option 2 ID: 7155055054

Option 3 ID: 7155055055

Option 4 ID: 7155055056

Status: Not Answered

Chosen Option: --

Q.63 Let T and C respectively be the transverse and conjugate axes of the hyperbola $16x^2 - y^2 + 64x + 4y$ +44 = 0. Then the area of the region above the parabola $x^2 = y + 4$, below the transverse axis T and on the right of the conjugate axis C is:

1.
$$4\sqrt{6} + \frac{44}{3}$$

2.
$$4\sqrt{6} - \frac{28}{3}$$

$$2.4\sqrt{6} - \frac{28}{3}$$
$$3.4\sqrt{6} - \frac{44}{3}$$

$$4.4\sqrt{6} + \frac{28}{3}$$

Question Type: MCQ

Question ID: 7155051694

Option 1 ID: 7155055096

Option 2 ID: 7155055093

Option 3 ID: 7155055095

Option 4 ID: 7155055094

Status: Not Answered

Q.64 Let $f(x) = 2x^{11} + \lambda$, $\lambda \in \mathbb{R}$, $n \in \mathbb{N}$, and f(4) = 133, f(5) = 255. Then the sum of all the positive integer divisions of f(3) - f(2)) in

Options 1. 61

- 2.58
- 3.59
- 4.60

Question Type : MCQ

Question ID: 7155051688

Option 1 ID: 7155055072

Option 2 ID : **7155055069**

Option 3 ID: 7155055070

Option 4 ID: **7155055071**Status: **Not Answered**

Chosen Option : --

Q.65 Let A, B, C be 3 × 3 matrices such that A is symmetric and B and C are skew-symmetric.

Consider the statements

- (S1) $A^{13}B^{26} B^{26}A^{13}$ is symmetric
- (S2) A²⁶ C¹³ C¹³ A²⁶ is symmetric

Then.

Options 1. Only S2 is true

- 2. Both S1 and S2 are false
- 3. Both S1 and S2 are true
- 4. Only S1 is true

Question Type: MCQ

Question ID: 7155051685

Option 1 ID: **7155055060**

Option 2 ID: **7155055059**

Option 3 ID: **7155055057**

Option 4 ID: **7155055058**

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.66 The shortest distance between the lines x + 1 = 2y = -12z and x = y + 2 = 6z - 6 is

Options 1. 2

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

Question Type : MCQ

Question ID : 7155051695

Option 1 ID: 7155055097

Option 2 ID: 7155055098

Option 3 ID: 7155055099

Option 4 ID: 7155055100

Status : Answered

Q.67 Let $\vec{a} = -\hat{i} - \hat{j} + \hat{k}$, $\vec{a} \cdot \vec{b} = 1$ and $\vec{a} \times \vec{b} = \hat{i} - \hat{j}$.

Then $\vec{a} - 6\vec{b}$ is equal to

Options 1. $3(\hat{i} + \hat{j} - \hat{k})$

 $2.3(\hat{i}-\hat{j}-\hat{k})$

 $3.3(\hat{i}+\hat{j}+\hat{k})$

4. $3(\hat{i}-\hat{j}+\hat{k})$

Question Type : MCQ

Question ID : **7155051697** Option 1 ID : **7155055105**

Option 2 ID : **7155055107**

Option 3 ID: **7155055108** Option 4 ID: **7155055106**

Status: Answered

Chosen Option: 3

Q.68

 $\left| (1+|\cos x|) \frac{\lambda}{|\cos x|} \right| \quad 0 < x < \frac{\pi}{2}$

If the function $f(x) = \begin{cases} \mu & , \quad x = \frac{\pi}{2} \\ \frac{\cot 6x}{e^{\cot 4x}} & , \quad \frac{\pi}{2} < x < \pi \end{cases}$

is continuous at $x = \frac{\pi}{2}$, then $9\lambda + 6\log_e \mu + \mu^6 - e^{6\lambda}$ is equal to

Options 1. 8

 $^{2.}2e^{4}+8$

3.10

4.11

Question Type : MCQ

Question ID : **7155051689**

Option 1 ID: **7155055073**

Option 2 ID: **7155055076** Option 3 ID: **7155055074**

Option 4 ID : **7155055075**

Status : Not Answered

The integral $16 \int_{1}^{2} \frac{dx}{x^3 (x^2 + 2)^2}$ is equal to

Options 1.
$$\frac{11}{6} + \log_e 4$$

2.
$$\frac{11}{12} - \log_e 4$$

3.
$$\frac{11}{12} + \log_e 4$$

4.
$$\frac{11}{6} - \log_e 4$$

Question Type : MCQ

Question ID : **7155051691** Option 1 ID : **7155055083**

Option 2 ID: **7155055082**Option 3 ID: **7155055081**Option 4 ID: **7155055084**

Status : Not Answered

Chosen Option: --

Q.70 The equations of two sides of a variable triangle are x = 0 and y = 3, and its third side is a tangent to the pumbola y² = 6x. The locus of its circumcentre is:

Options 1.
$$4y^2 - 18y - 3x - 18 = 0$$

$$2.4y^2 - 18y + 3x + 18 = 0$$

$$3.4y^2 + 18y + 3x + 18 = 0$$

$$4.4y^2 - 18y - 3x + 18 = 0$$

Question Type : MCQ

Question ID: 7155051693

Option 1 ID: 7155055092

Option 2 ID: 7155055090

Option 3 ID : **7155055089**

Option 4 ID : **7155055091**

Status: Not Answered

Chosen Option : --

Q.71 Let Δ , $\nabla \in \{\Lambda, V\}$ be such that $(p \rightarrow q) \Delta (p \nabla q)$ is a tautology. Then

Options 1.
$$\Delta = \Lambda$$
, $\nabla = \Lambda$

2.
$$\Delta = V$$
, $\nabla = \Lambda$

3.
$$\Delta = \Lambda$$
, $\nabla = V$

4.
$$\Delta = V$$
, $\nabla = V$

Question Type: MCQ

Question ID : 7155051700

Option 1 ID: 7155055117

Option 2 ID: 7155055120

Option 3 ID: 7155055119

Option 4 ID: 7155055118

Status : Answered

Q.72 The foot of perpendicular of the point (2, 0, 5) on the line $\frac{x+1}{2} = \frac{y-1}{5} = \frac{z+1}{-1}$ is (α, β, γ) . Then, which of the following is NOT correct?

Options 1.
$$\frac{\alpha\beta}{\gamma} = \frac{4}{15}$$

2.
$$\frac{\gamma}{\alpha} = \frac{5}{8}$$
3. $\frac{\beta}{\gamma} = -5$
4. $\frac{\alpha}{\beta} = -8$

$$3. \frac{\beta}{\gamma} = -5$$

$$\frac{\dot{\alpha}}{\beta} = -8$$

Question Type : MCQ

Question ID: 7155051696 Option 1 ID: 7155055104 Option 2 ID: 7155055103 Option 3 ID: **7155055102** Option 4 ID: 7155055101

Status: Not Answered

Chosen Option : --

Q.73 Let f: R - R be a function defined by

 $f(x) = log_{\sqrt{M}} \left[\sqrt{2}(\sin x - \cos x) + m - 2\right]$, for some m, such that the range of f is [0, 2]. Then the value

Options 1. 5

2. 3

3. 4

4. 2

Question Type : MCQ

Question ID: 7155051681 Option 1 ID: 7155055042 Option 2 ID: 7155055044 Option 3 ID: 7155055041 Option 4 ID: 7155055043

Status: Not Answered

Q.74 If the four points, whose position vectors are $2i-4j+2\hat{k}$, $i+2j-\hat{k}$, $-2i-j+3\hat{k}$ and $5i-2aj+4\hat{k}$ are coplanar, then a is equal to

Options 1.
$$\frac{73}{17}$$

$$2. -\frac{73}{17}$$

3.
$$\frac{107}{17}$$

4.
$$-\frac{107}{17}$$

Question Type : MCQ

Question ID: 7155051698 Option 1 ID: 7155055110 Option 2 ID: 7155055112 Option 3 ID: 7155055109 Option 4 ID: 7155055111

Status : Not Attempted and Marked For Review

Chosen Option: --

Q.75 Let the function f(x) = 2x³ + (2p −7)x² + 3 (2p −9)x − 6 have a maxima for some value of x < 0 and a minima for some value of x > 0. Then, the set of all values of p is

Options

$$1.\left(-\frac{9}{2}, \frac{9}{2}\right)$$

$$2.\left(0, \frac{9}{2}\right)$$

3.
$$\left(-\infty, \frac{9}{2}\right)$$

$$4.\left(\frac{9}{2},\infty\right)$$

Question Type: MCQ

Question ID: 7155051690 Option 1 ID: 7155055078

Option 2 ID: 7155055077 Option 3 ID: 7155055079 Option 4 ID: 7155055080

Status: Not Answered

Q.76 Let z be a complex number such that $\left| \frac{z-2t}{z+t} \right| = 2, z \neq -t$. Then z lies on the circle of radius 2 and

centre

Options 1. (0, 2)

- 2.(0,0)
- 3.(2,0)
- 4.(0,-2)

Question Type : MCQ

Question ID: 7155051683

Option 1 ID: **7155055050**

Option 2 ID: **7155055049**

Option 3 ID: **7155055052** Option 4 ID: **7155055051**

Status : Not Answered

Chosen Option : --

Q.77 Let N be the sum of the numbers appeared when two fair dice are rolled and let the probability that N-2, $\sqrt{3N}$, N+2 are in geometric progression be $\frac{k}{48}$. Then the value of k in

Options 1. 16

- 2. 2
- 3. 4
- 4.8

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

Question ID: 7155051699

Option 1 ID: 7155055114

Option 2 ID: **7155055113** Option 3 ID: **7155055116**

Option 4 ID : **7155055115**

Status: Not Answered

Chosen Option: --

Q.78 The number of functions

 $f: \{1,2,3,4\} \to \{a \in \mathbb{Z} | a| \le 8\}$

satisfying $f(n) + \frac{1}{n} f(n+1) = 1$, $\forall n \in \{1,2,3\}$ is

Options 1. 2

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

Question Type : MCQ

Question ID: 7155051682

Option 1 ID: 7155055046

Option 2 ID : 7155055047

Option 3 ID: 7155055048

Option 4 ID : **7155055045**

Status : Not Answered

Q.79 Let y = y(t) be a solution of the differential equation

$$\frac{dy}{dt} + \alpha y = \gamma e^{-\beta t}$$

where, $\alpha > 0$, $\beta > 0$ and $\gamma > 0$. Then $\lim_{t \to \infty} y(t)$

Options 1. is ()

- 2. does not exist
- 3. is 1
- 4. is -1

Question Type : MCQ

Question ID: 7155051692

Option 1 ID: 7155055086

Option 2 ID: 7155055088

Option 3 ID: 7155055087

Option 4 ID: 7155055085

Status: Not Answered

Chosen Option: --

Q.80
$$\sum_{k=0}^{6} {}^{51-k}C_3$$
 is equal to

Options 1.
$$51C_3 - 45C_3$$

$$^{2.51}C_4 - ^{45}C_4$$

3.
$${}^{52}C_4 - {}^{45}C_4$$

$$^{4.52}C_3 - ^{45}C_3$$

Question Type: MCQ

Question ID: 7155051687

Option 1 ID: 7155055066

Option 2 ID: 7155055065

Option 3 ID: 7155055068

Option 4 ID: 7155055067

Status: Not Answered

Chosen Option: --

Section: Mathematics Section B

Q.81 If $\int_{0}^{\infty} |\log_{n} x| dx = \frac{m}{n} \log_{n} \left[\frac{n^{n}}{n} \right]$, where m and n are coprime natural numbers, then $m^{2} + n^{2} = 5$ is equal

Given --Answer:

Question Type: SA

Question ID: 7155051706 Status: Not Answered

02/0	02/2023,	22:11	https://cdn3.digialm.com//per/g28/pub/2083/touchstone/AssessmentQPHTMLMode1
	Q.82	Let a ∈ I	C and let α, β be the roots of the equation $x^2 + 60^4 x + a = 0$

If $\alpha^4 + \beta^4 = -30$, then the product of all possible values of α is ____

Answer:

Question Type: SA Question ID: 7155051701 Status: Not Answered

Q.83 If the shortest distance between the line joining the points (1, 2, 3) and (2, 3, 4), and the line $\frac{x-1}{2} = \frac{y+1}{-1} = \frac{z-2}{0}$ is a, then $28a^2$ is equal to ______.

Given --Answer:

Question Type: SA

Question ID: 7155051708 Status: Not Answered

Q.84 For the two positive numbers a, b, if a, b and $\frac{1}{18}$ are in a geometric progression, while $\frac{1}{a}$, 10 and are in an arithmetic progression, then 16a + 12b is equal to _____

Given --Answer:

Question Type: SA

Question ID: 7155051704 Status: Not Answered

The remainder when (2023)²⁰²³ is divided by 35 is Q.85

Given --Answer:

Question Type: SA

Question ID: 7155051703 Status: Not Answered

Suppose Anil's mother wants to give 5 whole finits to Anil from a basket of 7 red apples, 5 white Q.86 apples and 8 oranges. If in the selected 5 fruits, at least 2 oranges, at least one red apple and at least one white apple must be given, then the number of ways, Anil's mother can offer 5 fruits to Anil is

Given --Answer:

Question Type: SA

Question ID: 7155051702 Status: Not Answered

Points P(-3, 7), Q(9, 10) and R(u, 4) lie on a circle C with PR as its diameter. The tangents to C at Q.87 the points Q and R intersect at the point S. If S lies on the line 2x - ky = 1, then k is equal to

Given --Answer:

Question Type: SA

Question ID: 7155051705 Status: Not Answered

Q.88	If m and a respectively are the numbers of positive and negative values of θ in the interval $[-\pi, \pi]$ that satisfy the equation cm 2θ cms $\frac{\theta}{t} = \cos 3\theta \cos \frac{\pi \theta}{t}$, then mn is equal to		
Give Answer			
		Question Type : SA Question ID : 7155051710 Status : Not Answered	
Q.89	25% of the population are smokers. A smoker has 27 times more chances to develop lung concer than a non-smoker. A person is diagnosed with lung cancer and the probability dist this person is a smoker is $\frac{k}{10}$. Then the value of k is		
Give Answer	•••		
		Question Type : SA Question ID : 7155051709 Status : Not Answered	
Q.90	A triangle is formed by X-axis, Y-axis and the line $3x + 4y =$ which lie strictly inside the triangle, where a is an integer an		
Q.90 Give	which lie strictly inside the triangle, where a is an integer an en		