

# NTA JEE 2024\_27 29 30 31 Jan 1st Feb 2024

Application No		
Candidate Name		
Roll No.		
Test Date	27/01/2024	
Test Time	9:00 AM - 12:00 PM	
Subject	B. Tech	

## Section : Mathematics Section A

**Q.1**

The distance, of the point  $(7, -2, 11)$  from the line  $\frac{x-6}{1} = \frac{y-4}{0} = \frac{z-8}{3}$  along the line

$$\frac{x-5}{2} = \frac{y-1}{-3} = \frac{z-5}{6}, \text{ is:}$$

**Options**

1. 18
2. 12
3. 21
4. 14

Question Type : **MCQ**Question ID : **533543393**Option 1 ID : **5335431427**Option 2 ID : **5335431425**Option 3 ID : **5335431428**Option 4 ID : **5335431426**Status : **Answered**Chosen Option : **4**

**Q.2**

Let  $x = x(t)$  and  $y = y(t)$  be solutions of the differential equations  $\frac{dx}{dt} + ax = 0$  and  $\frac{dy}{dt} + by = 0$  respectively,  $a, b \in \mathbf{R}$ . Given that  $x(0) = 2$ ;  $y(0) = 1$  and  $3y(1) = 2x(1)$ , the value of  $t$ , for which  $x(t) = y(t)$ , is :

**Options**

1.  $\log_3 4$
2.  $\log_4 \frac{2}{3}$
3.  $\log_4 3$
4.  $\log_2 \frac{2}{3}$

Question Type : **MCQ**Question ID : **533543389**Option 1 ID : **5335431412**Option 2 ID : **5335431411**Option 3 ID : **5335431410**Option 4 ID : **5335431409**Status : **Answered**Chosen Option : **2****Q.3**

${}^{n-1}C_r = (k^2 - 8) {}^n C_{r+1}$  if and only if :

**Options**

1.  $2\sqrt{3} < k < 3\sqrt{3}$
2.  $2\sqrt{2} < k \leq 3$
3.  $2\sqrt{3} < k \leq 3\sqrt{2}$
4.  $2\sqrt{2} < k < 2\sqrt{3}$

Question Type : **MCQ**Question ID : **533543381**Option 1 ID : **5335431380**Option 2 ID : **5335431377**Option 3 ID : **5335431378**Option 4 ID : **5335431379**Status : **Not Answered**Chosen Option : **--**

**Q.4** If (a, b) be the orthocentre of the triangle whose vertices are (1, 2), (2, 3) and (3, 1), and

$$I_1 = \int_a^b x \sin(4x - x^2) dx, I_2 = \int_a^b \sin(4x - x^2) dx, \text{ then } 36 \frac{I_1}{I_2} \text{ is equal to :}$$

**Options**

1. 66
2. 80
3. 88
4. 72

Question Type : **MCQ**

Question ID : **533543388**

Option 1 ID : **5335431408**

Option 2 ID : **5335431406**

Option 3 ID : **5335431407**

Option 4 ID : **5335431405**

Status : **Not Attempted and Marked For Review**

Chosen Option : --

**Q.5** If the shortest distance between the lines  $\frac{x-4}{1} = \frac{y+1}{2} = \frac{z}{-3}$  and  $\frac{x-\lambda}{2} = \frac{y+1}{4} = \frac{z-2}{-5}$  is

$$\frac{6}{\sqrt{5}}, \text{ then the sum of all possible values of } \lambda \text{ is :}$$

**Options**

1. 7
2. 8
3. 10
4. 5

Question Type : **MCQ**

Question ID : **533543394**

Option 1 ID : **5335431430**

Option 2 ID : **5335431431**

Option 3 ID : **5335431432**

Option 4 ID : **5335431429**

Status : **Answered**

Chosen Option : **2**

**Q.6** The number of common terms in the progressions 4, 9, 14, 19, . . . . . , up to 25<sup>th</sup> term and 3, 6, 9, 12, . . . . . , up to 37<sup>th</sup> term is :

**Options**

1. 8
2. 5
3. 9
4. 7

Question Type : **MCQ**

Question ID : **533543383**

Option 1 ID : **5335431387**

Option 2 ID : **5335431385**

Option 3 ID : **5335431388**

Option 4 ID : **5335431386**

Status : **Answered**

Chosen Option : 1

**Q.7** If  $S = \{z \in \mathbb{C} : |z - i| = |z + i| = |z - 1|\}$ , then,  $n(S)$  is :

**Options**

1. 1
2. 3
3. 2
4. 0

Question Type : **MCQ**

Question ID : **533543379**

Option 1 ID : **5335431370**

Option 2 ID : **5335431372**

Option 3 ID : **5335431371**

Option 4 ID : **5335431369**

Status : **Answered**

Chosen Option : 1

**Q.8**

If  $a = \lim_{x \rightarrow 0} \frac{\sqrt{1 + \sqrt{1 + x^4}} - \sqrt{2}}{x^4}$  and  $b = \lim_{x \rightarrow 0} \frac{\sin^2 x}{\sqrt{2} - \sqrt{1 + \cos x}}$ , then the value of  $ab^3$  is :

- Options
1. 25
  2. 36
  3. 30
  4. 32

Question Type : **MCQ**Question ID : **533543385**Option 1 ID : **5335431393**Option 2 ID : **5335431395**Option 3 ID : **5335431394**Option 4 ID : **5335431396**Status : **Answered**Chosen Option : **4**

**Q.9** Four distinct points  $(2k, 3k)$ ,  $(1, 0)$ ,  $(0, 1)$  and  $(0, 0)$  lie on a circle for  $k$  equal to :

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

Question Type : **MCQ**Question ID : **533543390**Option 1 ID : **5335431414**Option 2 ID : **5335431413**Option 3 ID : **5335431416**Option 4 ID : **5335431415**Status : **Answered**Chosen Option : **3**

**Q.10** The function  $f: \mathbb{N} - \{1\} \rightarrow \mathbb{N}$ ; defined by  $f(n) =$  the highest prime factor of  $n$ , is :

Options

1. onto only
2. neither one-one nor onto
3. one-one only
4. both one-one and onto

Question Type : **MCQ**

Question ID : **533543378**

Option 1 ID : **5335431366**

Option 2 ID : **5335431368**

Option 3 ID : **5335431365**

Option 4 ID : **5335431367**

Status : **Answered**

Chosen Option : **2**

**Q.11** Let  $a_1, a_2, \dots, a_{10}$  be 10 observations such that  $\sum_{k=1}^{10} a_k = 50$  and  $\sum_{\forall k < j} a_k \cdot a_j = 1100$ . Then the standard deviation of  $a_1, a_2, \dots, a_{10}$  is equal to :

Options

1. 5
2.  $\sqrt{5}$
3. 10
4.  $\sqrt{115}$

Question Type : **MCQ**

Question ID : **533543396**

Option 1 ID : **5335431437**

Option 2 ID : **5335431439**

Option 3 ID : **5335431438**

Option 4 ID : **5335431440**

Status : **Not Answered**

Chosen Option : **--**

Q.12

The length of the chord of the ellipse  $\frac{x^2}{25} + \frac{y^2}{16} = 1$ , whose mid point is  $\left(1, \frac{2}{5}\right)$ , is equal to :

Options

1.  $\frac{\sqrt{1691}}{5}$

2.  $\frac{\sqrt{2009}}{5}$

3.  $\frac{\sqrt{1741}}{5}$

4.  $\frac{\sqrt{1541}}{5}$

Question Type : MCQ

Question ID : 533543392

Option 1 ID : 5335431423

Option 2 ID : 5335431421

Option 3 ID : 5335431422

Option 4 ID : 5335431424

Status : Not Answered

Chosen Option : --

Q.13

Let  $\vec{a} = \hat{i} + 2\hat{j} + \hat{k}$ ,  $\vec{b} = 3(\hat{i} - \hat{j} + \hat{k})$ . Let  $\vec{c}$  be the vector such that  $\vec{a} \times \vec{c} = \vec{b}$  and

$\vec{a} \cdot \vec{c} = 3$ . Then  $\vec{a} \cdot ((\vec{c} \times \vec{b}) - \vec{b} - \vec{c})$  is equal to :

Options

1. 24

2. 20

3. 32

4. 36

Question Type : MCQ

Question ID : 533543395

Option 1 ID : 5335431434

Option 2 ID : 5335431433

Option 3 ID : 5335431436

Option 4 ID : 5335431435

Status : Answered

Chosen Option : 1

**Q.14** Let  $S = \{1, 2, 3, \dots, 10\}$ . Suppose  $M$  is the set of all the subsets of  $S$ , then the relation  $R = \{(A, B) : A \cap B \neq \emptyset; A, B \in M\}$  is :

**Options**

1. symmetric only
2. symmetric and reflexive only
3. reflexive only
4. symmetric and transitive only

Question Type : **MCQ**

Question ID : **533543377**

Option 1 ID : **5335431363**

Option 2 ID : **5335431362**

Option 3 ID : **5335431364**

Option 4 ID : **5335431361**

Status : **Not Answered**

Chosen Option : --

**Q.15** If the shortest distance of the parabola  $y^2 = 4x$  from the centre of the circle  $x^2 + y^2 - 4x - 16y + 64 = 0$  is  $d$ , then  $d^2$  is equal to :

**Options**

1. 36
2. 20
3. 16
4. 24

Question Type : **MCQ**

Question ID : **533543386**

Option 1 ID : **5335431400**

Option 2 ID : **5335431398**

Option 3 ID : **5335431397**

Option 4 ID : **5335431399**

Status : **Answered**

Chosen Option : 2



**Q.16**

Consider the matrix  $f(x) = \begin{bmatrix} \cos x & -\sin x & 0 \\ \sin x & \cos x & 0 \\ 0 & 0 & 1 \end{bmatrix}$ .

Given below are two statements :

**Statement I :**  $f(-x)$  is the inverse of the matrix  $f(x)$ .

**Statement II :**  $f(x) f(y) = f(x+y)$ .

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

**Options**

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

Question Type : **MCQ**

Question ID : **533543380**

Option 1 ID : **5335431375**

Option 2 ID : **5335431376**

Option 3 ID : **5335431373**

Option 4 ID : **5335431374**

Status : **Answered**

Chosen Option : **3**

**Q.17**

If  $\int_0^1 \frac{1}{\sqrt{3+x} + \sqrt{1+x}} dx = a + b\sqrt{2} + c\sqrt{3}$ , where a, b, c are rational numbers, then  $2a + 3b - 4c$

is equal to :

**Options**

1. **4**
2. **10**
3. **7**
4. **8**

Question Type : **MCQ**

Question ID : **533543387**

Option 1 ID : **5335431401**

Option 2 ID : **5335431404**

Option 3 ID : **5335431402**

Option 4 ID : **5335431403**

Status : **Not Answered**

Chosen Option : **--**

**Q.18** Consider the function.

$$f(x) = \begin{cases} \frac{a(7x-12-x^2)}{b|x^2-7x+12|} & , x < 3 \\ \frac{\sin(x-3)}{2^{x-|x|}} & , x > 3 \\ b & , x = 3 \end{cases}$$

where  $[x]$  denotes the greatest integer less than or equal to  $x$ . If  $S$  denotes the set of all ordered pairs  $(a, b)$  such that  $f(x)$  is continuous at  $x=3$ , then the number of elements in  $S$  is :

**Options**

1. 1
2. 2
3. 4
4. Infinitely many

Question Type : **MCQ**

Question ID : **533543384**

Option 1 ID : **5335431391**

Option 2 ID : **5335431392**

Option 3 ID : **5335431389**

Option 4 ID : **5335431390**

Status : **Answered**

Chosen Option : 1

**Q.19** The portion of the line  $4x + 5y = 20$  in the first quadrant is trisected by the lines  $L_1$  and  $L_2$  passing through the origin. The tangent of an angle between the lines  $L_1$  and  $L_2$  is :

**Options**

1.  $\frac{8}{5}$
2.  $\frac{25}{41}$
3.  $\frac{2}{5}$
4.  $\frac{30}{41}$

Question Type : **MCQ**

Question ID : **533543391**

Option 1 ID : **5335431418**

Option 2 ID : **5335431419**

Option 3 ID : **5335431417**

Option 4 ID : **5335431420**

Status : **Not Answered**

Chosen Option : --

**Q.20** If A denotes the sum of all the coefficients in the expansion of  $(1 - 3x + 10x^2)^n$  and B denotes the sum of all the coefficients in the expansion of  $(1 + x^2)^n$ , then :

- Options
1.  $A = 3B$
  2.  $B = A^3$
  3.  $A = B^3$
  4.  $3A = B$

Question Type : **MCQ**

Question ID : **533543382**

Option 1 ID : **5335431381**

Option 2 ID : **5335431383**

Option 3 ID : **5335431382**

Option 4 ID : **5335431384**

Status : **Answered**

Chosen Option : **3**

Section : **Mathematics Section B**

**Q.21** Let the set of all  $a \in \mathbf{R}$  such that the equation  $\cos 2x + a \sin x = 2a - 7$  has a solution be  $[p, q]$  and  $r = \tan 9^\circ - \tan 27^\circ - \frac{1}{\cot 63^\circ} + \tan 81^\circ$ , then  $pqr$  is equal to \_\_\_\_\_.

Given --  
Answer :

Question Type : **SA**

Question ID : **533543406**

Status : **Not Answered**

**Q.22** Let  $A = \begin{bmatrix} 2 & 0 & 1 \\ 1 & 1 & 0 \\ 1 & 0 & 1 \end{bmatrix}$ ,  $B = [B_1, B_2, B_3]$ , where  $B_1, B_2, B_3$  are column matrices, and

$$AB_1 = \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}, AB_2 = \begin{bmatrix} 2 \\ 3 \\ 0 \end{bmatrix}, AB_3 = \begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix}$$

If  $\alpha = |B|$  and  $\beta$  is the sum of all the diagonal elements of B, then  $\alpha^3 + \beta^3$  is equal to \_\_\_\_\_.

Given --  
Answer :

Question Type : **SA**

Question ID : **533543398**

Status : **Not Answered**

**Q.23**

Let for a differentiable function  $f : (0, \infty) \rightarrow \mathbf{R}$ ,  $f(x) - f(y) \geq \log_e \left( \frac{x}{y} \right) + x - y, \forall x, y \in (0, \infty)$ .

Then  $\sum_{n=1}^{20} f' \left( \frac{1}{n^2} \right)$  is equal to \_\_\_\_\_.

Given --  
Answer :

Question Type : SA  
Question ID : 533543399  
Status : Not Answered

**Q.24**

A fair die is tossed repeatedly until a six is obtained. Let  $X$  denote the number of tosses required and let  $a = P(X=3)$ ,  $b = P(X \geq 3)$  and  $c = P(X \geq 6 | X > 3)$ . Then  $\frac{b+c}{a}$  is equal to \_\_\_\_\_.

Given --  
Answer :

Question Type : SA  
Question ID : 533543405  
Status : Not Answered

**Q.25**

If the solution of the differential equation  $(2x + 3y - 2) dx + (4x + 6y - 7) dy = 0$ ,  $y(0) = 3$ , is  $\alpha x + \beta y + 3 \log_e |2x + 3y - \gamma| = 6$ , then  $\alpha + 2\beta + 3\gamma$  is equal to \_\_\_\_\_.

Given --  
Answer :

Question Type : SA  
Question ID : 533543403  
Status : Not Answered

**Q.26**

Let  $f(x) = x^3 + x^2 f'(1) + x f''(2) + f'''(3)$ ,  $x \in \mathbf{R}$ . Then  $f'(10)$  is equal to \_\_\_\_\_.

Given 202  
Answer :

Question Type : SA  
Question ID : 533543401  
Status : Answered

**Q.27**

The least positive integral value of  $\alpha$ , for which the angle between the vectors  $\alpha \hat{i} - 2 \hat{j} + 2 \hat{k}$  and  $\alpha \hat{i} + 2\alpha \hat{j} - 2 \hat{k}$  is acute, is \_\_\_\_\_.

Given 5  
Answer :

Question Type : SA  
Question ID : 533543404  
Status : Answered

**Q.28** Let the area of the region  $\{(x, y) : x - 2y + 4 \geq 0, x + 2y^2 \geq 0, x + 4y^2 \leq 8, y \geq 0\}$  be  $\frac{m}{n}$ , where m and n are coprime numbers. Then m + n is equal to \_\_\_\_\_.

Given --  
Answer :

Question Type : SA  
Question ID : 533543402  
Status : Not Answered

**Q.29** If  $8 = 3 + \frac{1}{4}(3 + p) + \frac{1}{4^2}(3 + 2p) + \frac{1}{4^3}(3 + 3p) + \dots + \infty$ , then the value of p is \_\_\_\_\_.

Given 12  
Answer :

Question Type : SA  
Question ID : 533543400  
Status : Answered

**Q.30** If  $\alpha$  satisfies the equation  $x^2 + x + 1 = 0$  and  $(1 + \alpha)^7 = A + B\alpha + C\alpha^2$ ,  $A, B, C \geq 0$ , then  $5(3A - 2B - C)$  is equal to \_\_\_\_\_.

Given --  
Answer :

Question Type : SA  
Question ID : 533543397  
Status : Not Answered

Section : Physics Section A

**Q.31** A train is moving with a speed of 12 m/s on rails which are 1.5 m apart. To negotiate a curve of radius 400 m, the height by which the outer rail should be raised with respect to the inner rail is (Given,  $g = 10 \text{ m/s}^2$ ) :

Options

1. 6.0 cm
2. 4.8 cm
3. 4.2 cm
4. 5.4 cm

Question Type : MCQ  
Question ID : 533543410  
Option 1 ID : 5335431466  
Option 2 ID : 5335431464  
Option 3 ID : 5335431463  
Option 4 ID : 5335431465  
Status : Answered  
Chosen Option : 4

**Q.32** Given below are two statements :

**Statement (I)** : Planck's constant and angular momentum have same dimensions.

**Statement (II)** : Linear momentum and moment of force have same dimensions.

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

Question Type : **MCQ**

Question ID : **533543407**

Option 1 ID : **5335431452**

Option 2 ID : **5335431451**

Option 3 ID : **5335431453**

Option 4 ID : **5335431454**

Status : **Answered**

Chosen Option : **3**

**Q.33** A convex lens of focal length 40 cm forms an image of an extended source of light on a photoelectric cell. A current  $I$  is produced. The lens is replaced by another convex lens having the same diameter but focal length 20 cm. The photoelectric current now is :

Options

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

Question Type : **MCQ**

Question ID : **533543422**

Option 1 ID : **5335431512**

Option 2 ID : **5335431514**

Option 3 ID : **5335431513**

Option 4 ID : **5335431511**

Status : **Not Answered**

Chosen Option : **--**

**Q.34** A wire of resistance  $R$  and length  $L$  is cut into 5 equal parts. If these parts are joined parallelly, then resultant resistance will be :

Options

1.  $25 R$
2.  $\frac{1}{5} R$
3.  $\frac{1}{25} R$
4.  $5 R$

Question Type : **MCQ**

Question ID : **533543417**

Option 1 ID : **5335431494**

Option 2 ID : **5335431491**

Option 3 ID : **5335431492**

Option 4 ID : **5335431493**

Status : **Answered**

Chosen Option : **3**

**Q.35** A plane electromagnetic wave propagating in  $x$ -direction is described by  $E_y = (200 \text{ Vm}^{-1}) \sin[1.5 \times 10^7 t - 0.05 x]$ ; The intensity of the wave is :  
(Use  $\epsilon_0 = 8.85 \times 10^{-12} \text{ C}^2\text{N}^{-1}\text{m}^{-2}$ )

Options

1.  $53.1 \text{ Wm}^{-2}$
2.  $35.4 \text{ Wm}^{-2}$
3.  $26.6 \text{ Wm}^{-2}$
4.  $106.2 \text{ Wm}^{-2}$

Question Type : **MCQ**

Question ID : **533543420**

Option 1 ID : **5335431503**

Option 2 ID : **5335431506**

Option 3 ID : **5335431505**

Option 4 ID : **5335431504**

Status : **Not Answered**

Chosen Option : **--**

**Q.36** Identify the physical quantity that cannot be measured using spherometer :

Options

1. Thickness of thin plates
2. Radius of curvature of concave surface
3. Specific rotation of liquids
4. Radius of curvature of convex surface

Question Type : **MCQ**

Question ID : **533543425**

Option 1 ID : **5335431524**

Option 2 ID : **5335431526**

Option 3 ID : **5335431525**

Option 4 ID : **5335431523**

Status : **Not Answered**

Chosen Option : --

**Q.37** Given below are two statements :

**Statement (I)** : Viscosity of gases is greater than that of liquids.

**Statement (II)** : Surface tension of a liquid decreases due to the presence of insoluble impurities.

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

Options

1. Both **Statement I** and **Statement II** are correct
2. **Statement I** is incorrect but **Statement II** is 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 : **533543413**

Option 1 ID : **5335431475**

Option 2 ID : **5335431478**

Option 3 ID : **5335431477**

Option 4 ID : **5335431476**

Status : **Answered**

Chosen Option : **2**



**Q.38** An electric charge  $10^{-6} \mu\text{C}$  is placed at origin  $(0, 0)\text{m}$  of X–Y co-ordinate system. Two points P and Q are situated at  $(\sqrt{3}, \sqrt{3})\text{m}$  and  $(\sqrt{6}, 0)\text{m}$  respectively. The potential difference between the points P and Q will be :

Options

1. 3 V
2.  $\sqrt{3}$  V
3. 0 V
4.  $\sqrt{6}$  V

Question Type : **MCQ**

Question ID : **533543416**

Option 1 ID : **5335431490**

Option 2 ID : **5335431488**

Option 3 ID : **5335431489**

Option 4 ID : **5335431487**

Status : **Answered**

Chosen Option : 3

**Q.39** A proton moving with a constant velocity passes through a region of space without any change in its velocity. If  $\vec{E}$  and  $\vec{B}$  represent the electric and magnetic fields respectively, then the region of space may have :

- (A)  $E=0, B=0$
- (B)  $E=0, B \neq 0$
- (C)  $E \neq 0, B=0$
- (D)  $E \neq 0, B \neq 0$

Choose the **most appropriate** answer from the options given below :

Options

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

Question Type : **MCQ**

Question ID : **533543418**

Option 1 ID : **5335431497**

Option 2 ID : **5335431496**

Option 3 ID : **5335431495**

Option 4 ID : **5335431498**

Status : **Answered**

Chosen Option : 1

**Q.40** The average kinetic energy of a monoatomic molecule is 0.414 eV at temperature :  
(Use  $K_B = 1.38 \times 10^{-23}$  J/mol-K)

Options

1. 1600 K
2. 3200 K
3. 1500 K
4. 3000 K

Question Type : **MCQ**

Question ID : **533543415**

Option 1 ID : **5335431484**

Option 2 ID : **5335431486**

Option 3 ID : **5335431483**

Option 4 ID : **5335431485**

Status : **Answered**

Chosen Option : **2**

**Q.41** A body of mass 1000 kg is moving horizontally with a velocity 6 m/s. If 200 kg extra mass is added, the final velocity (in m/s) is :

Options

1. 3
2. 2
3. 6
4. 5

Question Type : **MCQ**

Question ID : **533543409**

Option 1 ID : **5335431461**

Option 2 ID : **5335431462**

Option 3 ID : **5335431459**

Option 4 ID : **5335431460**

Status : **Answered**

Chosen Option : **4**

**Q.42** A wire of length 10 cm and radius  $\sqrt{7} \times 10^{-4}$  m is connected across the right gap of a meter bridge. When a resistance of  $4.5 \Omega$  is connected on the left gap by using a resistance box, the balance length is found to be at 60 cm from the left end. If the resistivity of the wire is  $R \times 10^{-7} \Omega\text{m}$ , then value of R is :

Options

1. 63
2. 35
3. 70
4. 66

Question Type : **MCQ**

Question ID : **533543426**

Option 1 ID : **5335431528**

Option 2 ID : **5335431527**

Option 3 ID : **5335431530**

Option 4 ID : **5335431529**

Status : **Not Attempted and  
Marked For Review**

Chosen Option : --

**Q.43** The acceleration due to gravity on the surface of earth is  $g$ . If the diameter of earth reduces to half of its original value and mass remains constant, then acceleration due to gravity on the surface of earth would be :

Options

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

Question Type : **MCQ**

Question ID : **533543412**

Option 1 ID : **5335431471**

Option 2 ID : **5335431474**

Option 3 ID : **5335431473**

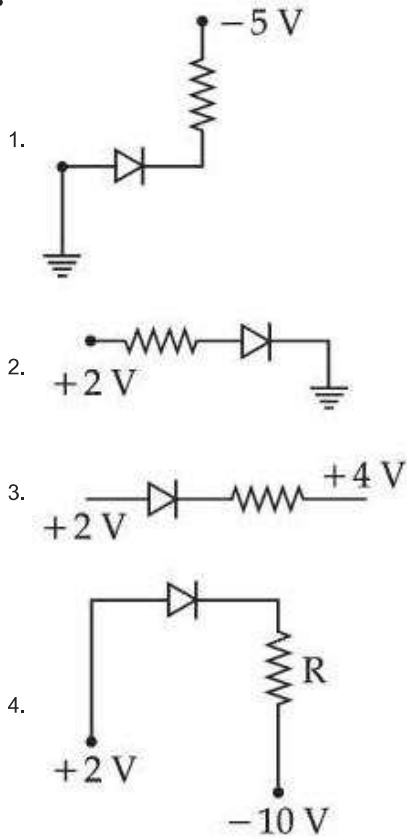
Option 4 ID : **5335431472**

Status : **Answered**

Chosen Option : 1

Q.44 Which of the following circuits is reverse - biased ?

Options



Question Type : **MCQ**

Question ID : **533543424**

Option 1 ID : **5335431519**

Option 2 ID : **5335431520**

Option 3 ID : **5335431522**

Option 4 ID : **5335431521**

Status : **Answered**

Chosen Option : **3**

**Q.45** The radius of third stationary orbit of electron for Bohr's atom is R. The radius of fourth stationary orbit will be :

**Options**

1.  $\frac{3}{4} R$
2.  $\frac{16}{9} R$
3.  $\frac{4}{3} R$
4.  $\frac{9}{16} R$

Question Type : **MCQ**

Question ID : **533543423**

Option 1 ID : **5335431518**

Option 2 ID : **5335431516**

Option 3 ID : **5335431517**

Option 4 ID : **5335431515**

Status : **Answered**

Chosen Option : **2**

**Q.46** Two bodies of mass 4 g and 25 g are moving with equal kinetic energies. The ratio of magnitude of their linear momentum is :

**Options**

1. **3 : 5**
2. **4 : 5**
3. **5 : 4**
4. **2 : 5**

Question Type : **MCQ**

Question ID : **533543411**

Option 1 ID : **5335431470**

Option 2 ID : **5335431469**

Option 3 ID : **5335431468**

Option 4 ID : **5335431467**

Status : **Answered**

Chosen Option : **4**

**Q.47** 0.08 kg air is heated at constant volume through 5°C. The specific heat of air at constant volume is 0.17 kcal/kg°C and  $J=4.18$  joule/cal. The change in its internal energy is approximately.

- Options**
1. 142 J
  2. 318 J
  3. 298 J
  4. 284 J

Question Type : **MCQ**

Question ID : 533543414

Option 1 ID : 5335431479

Option 2 ID : 5335431482

Option 3 ID : 5335431481

Option 4 ID : 5335431480

Status : **Answered**

Chosen Option : 2

**Q.48** Position of an ant ( $S$  in metres) moving in  $Y$ - $Z$  plane is given by  $S = 2t^2\hat{j} + 5t\hat{k}$  (where  $t$  is in second). The magnitude and direction of velocity of the ant at  $t=1$  s will be :

- Options**
1. 9 m/s in  $z$ -direction
  2. 4 m/s in  $y$ -direction
  3. 16 m/s in  $y$ -direction
  4. 4 m/s in  $x$ -direction

Question Type : **MCQ**

Question ID : 533543408

Option 1 ID : 5335431458

Option 2 ID : 5335431457

Option 3 ID : 5335431456

Option 4 ID : 5335431455

Status : **Answered**

Chosen Option : 2

**Q.49** A rectangular loop of length 2.5 m and width 2 m is placed at  $60^\circ$  to a magnetic field of 4 T. The loop is removed from the field in 10 s. The average emf induced in the loop during this time is :

- Options
1. +1 V
  2. -2 V
  3. -1 V
  4. +2 V

Question Type : **MCQ**

Question ID : **533543419**

Option 1 ID : **5335431500**

Option 2 ID : **5335431501**

Option 3 ID : **5335431499**

Option 4 ID : **5335431502**

Status : **Answered**

Chosen Option : 1

**Q.50** If the refractive index of the material of a prism is  $\cot\left(\frac{A}{2}\right)$ , where A is the angle of prism then the angle of minimum deviation will be :

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

Question Type : **MCQ**

Question ID : **533543421**

Option 1 ID : **5335431507**

Option 2 ID : **5335431510**

Option 3 ID : **5335431509**

Option 4 ID : **5335431508**

Status : **Answered**

Chosen Option : 1

Section : **Physics Section B**

**Q.51** If average depth of an ocean is 4000 m and the bulk modulus of water is  $2 \times 10^9 \text{ Nm}^{-2}$ , then fractional compression  $\frac{\Delta V}{V}$  of water at the bottom of ocean is  $\alpha \times 10^{-2}$ . The value of  $\alpha$  is \_\_\_\_\_ . (Given,  $g = 10 \text{ ms}^{-2}$ ,  $\rho = 1000 \text{ kg m}^{-3}$ )

Given --  
Answer :

Question Type : **SA**

Question ID : **533543429**

Status : **Not Answered**

- Q.52** A thin metallic wire having cross sectional area of  $10^{-4} \text{ m}^2$  is used to make a ring of radius 30 cm. A positive charge of  $2\pi \text{ C}$  is uniformly distributed over the ring, while another positive charge of  $30 \text{ pC}$  is kept at the centre of the ring. The tension in the ring is \_\_\_\_\_ N; provided that the ring does not get deformed (neglect the influence of gravity).

$$\left( \text{given, } \frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ SI units} \right)$$

Given --  
Answer :

Question Type : SA  
Question ID : 533543431  
Status : Not Answered

- Q.53** Four particles each of mass 1 kg are placed at four corners of a square of side 2 m. Moment of inertia of system about an axis perpendicular to its plane and passing through one of its vertex is \_\_\_\_\_  $\text{kgm}^2$ .

Given 16  
Answer :

Question Type : SA  
Question ID : 533543428  
Status : Answered

- Q.54** Two coils have mutual inductance 0.002 H. The current changes in the first coil according to the relation  $i = i_0 \sin \omega t$ , where  $i_0 = 5 \text{ A}$  and  $\omega = 50\pi \text{ rad/s}$ . The maximum value of emf in the second coil is  $\frac{\pi}{\alpha} \text{ V}$ . The value of  $\alpha$  is \_\_\_\_\_.

Given --  
Answer :

Question Type : SA  
Question ID : 533543434  
Status : Not Answered

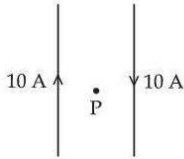
- Q.55** A particle executes simple harmonic motion with an amplitude of 4 cm. At the mean position, velocity of the particle is 10 cm/s. The distance of the particle from the mean position when its speed becomes 5 cm/s is  $\sqrt{\alpha} \text{ cm}$ , where  $\alpha =$  \_\_\_\_\_.

Given 12  
Answer :

Question Type : SA  
Question ID : 533543430  
Status : Answered



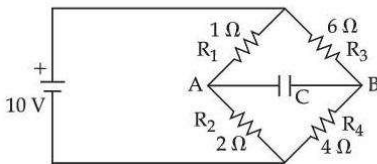
- Q.56** Two long, straight wires carry equal currents in opposite directions as shown in figure. The separation between the wires is 5.0 cm. The magnitude of the magnetic field at a point P midway between the wires is \_\_\_\_\_  $\mu\text{T}$ . (Given :  $\mu_0 = 4\pi \times 10^{-7} \text{ TmA}^{-1}$ )



Given **160**  
Answer :

Question Type : SA  
Question ID : 533543433  
Status : Answered

- Q.57** The charge accumulated on the capacitor connected in the following circuit is \_\_\_\_\_  $\mu\text{C}$ .  
(Given  $C = 150 \mu\text{F}$ )



Given --  
Answer :

Question Type : SA  
Question ID : 533543432  
Status : Not Answered

- Q.58** In a nuclear fission process, a high mass nuclide ( $A \approx 236$ ) with binding energy 7.6 MeV/Nucleon dissociated into middle mass nuclides ( $A \approx 118$ ), having binding energy of 8.6 MeV/Nucleon. The energy released in the process would be \_\_\_\_\_ MeV.

Given --  
Answer :

Question Type : SA  
Question ID : 533543436  
Status : Not Answered

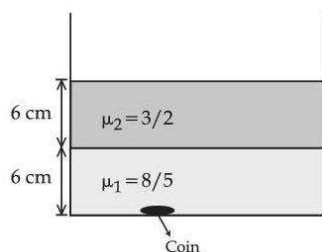
- Q.59** A particle starts from origin at  $t=0$  with a velocity  $5 \hat{i} \text{ m/s}$  and moves in  $x$ - $y$  plane under action of a force which produces a constant acceleration of  $(3 \hat{i} + 2 \hat{j}) \text{ m/s}^2$ . If the  $x$ -coordinate of the particle at that instant is 84 m, then the speed of the particle at this time is  $\sqrt{\alpha} \text{ m/s}$ . The value of  $\alpha$  is \_\_\_\_\_.

Given **673**  
Answer :

Question Type : SA  
Question ID : 533543427  
Status : Answered

Q.60

Two immiscible liquids of refractive indices  $\frac{8}{5}$  and  $\frac{3}{2}$  respectively are put in a beaker as shown in the figure. The height of each column is 6 cm. A coin is placed at the bottom of the beaker. For near normal vision, the apparent depth of the coin is  $\frac{\alpha}{4}$  cm. The value of  $\alpha$  is \_\_\_\_\_.



Given 17

Answer :

Question Type : SA

Question ID : 533543435

Status : Answered

Section : Chemistry Section A

Q.61 Element not showing variable oxidation state is :

Options

1. Bromine
2. Iodine
3. Fluorine
4. Chlorine

Question Type : MCQ

Question ID : 533543441

Option 1 ID : 5335431559

Option 2 ID : 5335431560

Option 3 ID : 5335431557

Option 4 ID : 5335431558

Status : Answered

Chosen Option : 3

**Q.62** The correct statement regarding nucleophilic substitution reaction in a chiral alkyl halide is :

Options 1.

Racemisation occurs in  $S_N1$  reaction and retention occurs in  $S_N2$  reaction.

2.

Racemisation occurs in both  $S_N1$  and  $S_N2$  reactions.

3.

Retention occurs in  $S_N1$  reaction and inversion occurs in  $S_N2$  reaction.

4.

Racemisation occurs in  $S_N1$  reaction and inversion occurs in  $S_N2$  reaction.

Question Type : **MCQ**

Question ID : **533543449**

Option 1 ID : **5335431591**

Option 2 ID : **5335431589**

Option 3 ID : **5335431590**

Option 4 ID : **5335431592**

Status : **Answered**

Chosen Option : **4**

**Q.63** NaCl reacts with conc.  $H_2SO_4$  and  $K_2Cr_2O_7$  to give reddish fumes (B), which react with NaOH to give yellow solution (C). (B) and (C) respectively are :

Options

1.  $CrO_2Cl_2$ ,  $KHSO_4$

2.  $CrO_2Cl_2$ ,  $Na_2Cr_2O_7$

3.  $CrO_2Cl_2$ ,  $Na_2CrO_4$

4.  $Na_2CrO_4$ ,  $CrO_2Cl_2$

Question Type : **MCQ**

Question ID : **533543456**

Option 1 ID : **5335431617**

Option 2 ID : **5335431619**

Option 3 ID : **5335431618**

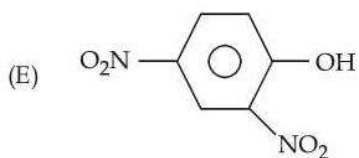
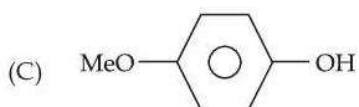
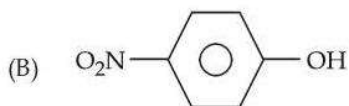
Option 4 ID : **5335431620**

Status : **Answered**

Chosen Option : **2**

**Q.64** The ascending order of acidity of -OH group in the following compounds is :

(A) Bu - OH



Choose the **correct** answer from the options given below :

**Options**

1. (C) < (A) < (D) < (B) < (E)
2. (A) < (D) < (C) < (B) < (E)
3. (A) < (C) < (D) < (B) < (E)
4. (C) < (D) < (B) < (A) < (E)

Question Type : **MCQ**

Question ID : **533543451**

Option 1 ID : **5335431600**

Option 2 ID : **5335431599**

Option 3 ID : **5335431597**

Option 4 ID : **5335431598**

Status : **Answered**

Chosen Option : **1**

Q.65

The electronic configuration for Neodymium is :  
[Atomic Number for Neodymium 60]

Options

1.  $[\text{Xe}] 4f^6 6s^2$
2.  $[\text{Xe}] 4f^1 5d^1 6s^2$
3.  $[\text{Xe}] 5f^7 7s^2$
4.  $[\text{Xe}] 4f^4 6s^2$

Question Type : **MCQ**Question ID : **533543444**Option 1 ID : **5335431571**Option 2 ID : **5335431569**Option 3 ID : **5335431572**Option 4 ID : **5335431570**Status : **Answered**Chosen Option : **4**

Q.66 A solution of two miscible liquids showing negative deviation from Raoult's law will have :

Options

1. increased vapour pressure, increased boiling point
2. decreased vapour pressure, decreased boiling point
3. decreased vapour pressure, increased boiling point
4. increased vapour pressure, decreased boiling point

Question Type : **MCQ**Question ID : **533543438**Option 1 ID : **5335431546**Option 2 ID : **5335431547**Option 3 ID : **5335431545**Option 4 ID : **5335431548**Status : **Answered**Chosen Option : **2**

Q.67

Cyclohexene  is \_\_\_\_\_ type of an organic compound.

Options

1. Alicyclic
2. Benzenoid aromatic
3. Acyclic
4. Benzenoid non-aromatic

Question Type : **MCQ**Question ID : **533543447**Option 1 ID : **5335431582**Option 2 ID : **5335431583**Option 3 ID : **5335431581**Option 4 ID : **5335431584**Status : **Answered**

Chosen Option : 1

Q.68

Given below are two statements :

**Statement (I)** : p-nitrophenol is more acidic than m-nitrophenol and o-nitrophenol.**Statement (II)** : Ethanol will give immediate turbidity with Lucas reagent.In the light of the above statements, choose the **correct** answer from the options given below :

Options

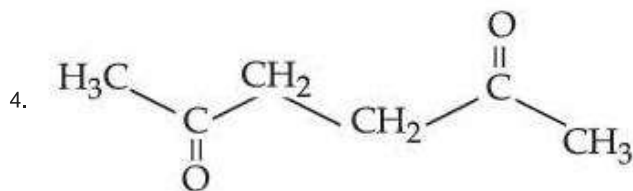
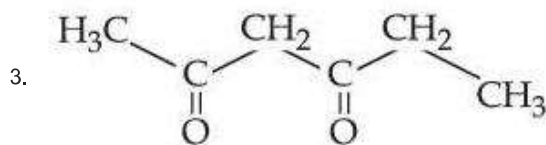
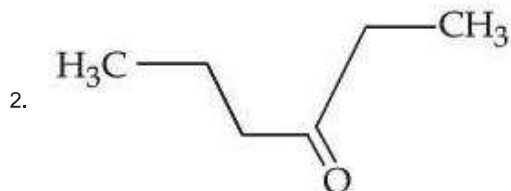
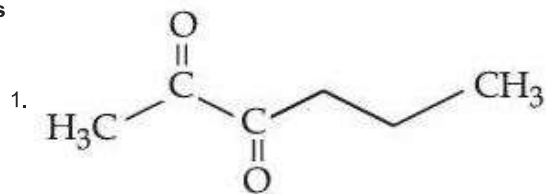
1. **Both Statement I and Statement II are true**
2. **Both Statement I and Statement II are false**
3. **Statement I is false but Statement II is true**
4. **Statement I is true but Statement II is false**

Question Type : **MCQ**Question ID : **533543450**Option 1 ID : **5335431593**Option 2 ID : **5335431594**Option 3 ID : **5335431596**Option 4 ID : **5335431595**Status : **Answered**

Chosen Option : 4

Q.69 Which of the following has highly acidic hydrogen ?

Options



Question Type : **MCQ**

Question ID : **533543448**

Option 1 ID : **5335431588**

Option 2 ID : **5335431585**

Option 3 ID : **5335431586**

Option 4 ID : **5335431587**

Status : **Answered**

Chosen Option : **3**

**Q.70** Which of the following electronic configuration would be associated with the highest magnetic moment ?

Options

1.  $[\text{Ar}] 3d^6$
2.  $[\text{Ar}] 3d^3$
3.  $[\text{Ar}] 3d^8$
4.  $[\text{Ar}] 3d^7$

Question Type : **MCQ**

Question ID : **533543443**

Option 1 ID : **5335431566**

Option 2 ID : **5335431567**

Option 3 ID : **5335431565**

Option 4 ID : **5335431568**

Status : **Answered**

Chosen Option : **2**

**Q.71** Yellow compound of lead chromate gets dissolved on treatment with hot NaOH solution. The product of lead formed is a :

Options 1.

1. Tetraanionic complex with coordination number six
2. Neutral complex with coordination number four
3. Dianionic complex with coordination number six
4. Dianionic complex with coordination number four

Question Type : **MCQ**

Question ID : **533543455**

Option 1 ID : **5335431613**

Option 2 ID : **5335431616**

Option 3 ID : **5335431615**

Option 4 ID : **5335431614**

Status : **Answered**

Chosen Option : **4**



**Q.72** Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

**Assertion (A)** : Melting point of Boron (2453 K) is unusually high in group 13 elements.

**Reason (R)** : Solid Boron has very strong crystalline lattice.

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

**Options**

1. **(A)** is true but **(R)** is false
2. **(A)** is false but **(R)** is true
3. Both **(A)** and **(R)** are correct and **(R)** is the correct explanation of **(A)**
4. Both **(A)** and **(R)** are correct but **(R)** is **not** the correct explanation of **(A)**

Question Type : **MCQ**

Question ID : **533543442**

Option 1 ID : **5335431563**

Option 2 ID : **5335431564**

Option 3 ID : **5335431561**

Option 4 ID : **5335431562**

Status : **Answered**

Chosen Option : **3**

**Q.73** Choose the polar molecule from the following :

**Options**

1.  $\text{CO}_2$
2.  $\text{CHCl}_3$
3.  $\text{CH}_2 = \text{CH}_2$
4.  $\text{CCl}_4$

Question Type : **MCQ**

Question ID : **533543437**

Option 1 ID : **5335431542**

Option 2 ID : **5335431543**

Option 3 ID : **5335431544**

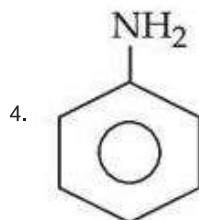
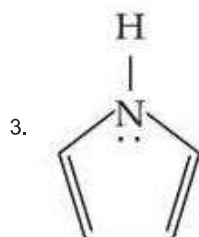
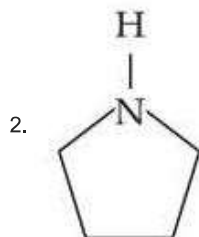
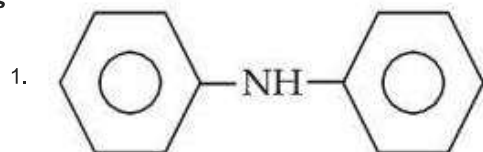
Option 4 ID : **5335431541**

Status : **Answered**

Chosen Option : **2**

Q.74 Which of the following is strongest Bronsted base ?

Options



Question Type : **MCQ**

Question ID : **533543453**

Option 1 ID : **5335431606**

Option 2 ID : **5335431607**

Option 3 ID : **5335431608**

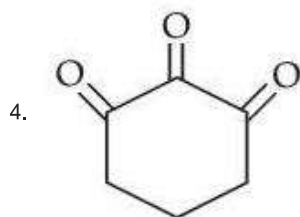
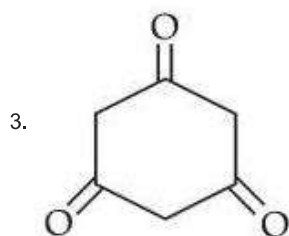
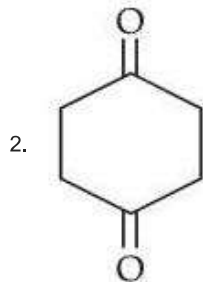
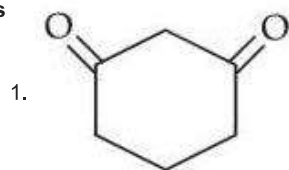
Option 4 ID : **5335431605**

Status : **Answered**

Chosen Option : **2**

Q.75 Highest enol content will be shown by :

Options



Question Type : **MCQ**

Question ID : **533543452**

Option 1 ID : **5335431604**

Option 2 ID : **5335431602**

Option 3 ID : **5335431603**

Option 4 ID : **5335431601**

Status : **Answered**

Chosen Option : **3**

**Q.76** Given below are two statements :

**Statement (I)** : Aqueous solution of ammonium carbonate is basic.

**Statement (II)** : Acidic/basic nature of salt solution of a salt of weak acid and weak base depends on  $K_a$  and  $K_b$  value of acid and the base forming it.

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

**Options**

1. Both **Statement I** and **Statement II** are correct

2.

**Statement I** is incorrect but **Statement II** is 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 : **533543439**

Option 1 ID : **5335431549**

Option 2 ID : **5335431552**

Option 3 ID : **5335431551**

Option 4 ID : **5335431550**

Status : **Answered**

Chosen Option : 1

**Q.77** Given below are two statements :

**Statement (I)** : The  $4f$  and  $5f$  - series of elements are placed separately in the Periodic table to preserve the principle of classification.

**Statement (II)** :  $s$ -block elements can be found in pure form in nature.

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

**Options**

1. Both **Statement I** and **Statement II** are false

2. Both **Statement I** and **Statement II** are true

3. **Statement I** is false but **Statement II** is true

4. **Statement I** is true but **Statement II** is false

Question Type : **MCQ**

Question ID : **533543440**

Option 1 ID : **5335431554**

Option 2 ID : **5335431553**

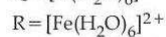
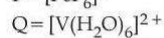
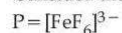
Option 3 ID : **5335431556**

Option 4 ID : **5335431555**

Status : **Answered**

Chosen Option : 4

**Q.78** Consider the following complex ions



The correct order of the complex ions, according to their spin only magnetic moment values (in B.M.) is :

**Options**

1.  $Q < P < R$
2.  $Q < R < P$
3.  $R < P < Q$
4.  $R < Q < P$

Question Type : **MCQ**

Question ID : **533543445**

Option 1 ID : **5335431575**

Option 2 ID : **5335431574**

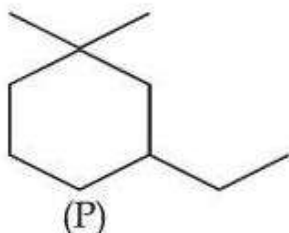
Option 3 ID : **5335431576**

Option 4 ID : **5335431573**

Status : **Answered**

Chosen Option : **2**

**Q.79** IUPAC name of following compound (P) is :



**Options**

1. 1-Ethyl-5,5-dimethylcyclohexane
2. 1,1-Dimethyl-3-ethylcyclohexane
3. 3-Ethyl-1,1-dimethylcyclohexane
4. 1-Ethyl-3,3-dimethylcyclohexane

Question Type : **MCQ**

Question ID : **533543446**

Option 1 ID : **5335431578**

Option 2 ID : **5335431577**

Option 3 ID : **5335431580**

Option 4 ID : **5335431579**

Status : **Answered**

Chosen Option : **3**

**Q.80** Two nucleotides are joined together by a linkage known as :

Options

1. Peptide linkage
2. Disulphide linkage
3. Phosphodiester linkage
4. Glycosidic linkage

Question Type : **MCQ**

Question ID : **533543454**

Option 1 ID : **5335431612**

Option 2 ID : **5335431609**

Option 3 ID : **5335431611**

Option 4 ID : **5335431610**

Status : **Answered**

Chosen Option : **3**

Section : **Chemistry Section B**

**Q.81** From the given list, the number of compounds with +4 oxidation state of Sulphur is \_\_\_\_\_.  
SO<sub>3</sub>, H<sub>2</sub>SO<sub>3</sub>, SOCl<sub>2</sub>, SF<sub>4</sub>, BaSO<sub>4</sub>, H<sub>2</sub>S<sub>2</sub>O<sub>7</sub>

Given --  
Answer :

Question Type : **SA**

Question ID : **533543461**

Status : **Not Answered**

**Q.82** The mass of silver (Molar mass of Ag : 108 gmol<sup>-1</sup>) displaced by a quantity of electricity which displaces 5600 mL of O<sub>2</sub> at S.T.P. will be \_\_\_\_\_ g.

Given --  
Answer :

Question Type : **SA**

Question ID : **533543462**

Status : **Not Answered**

**Q.83** Sum of bond order of CO and NO<sup>+</sup> is \_\_\_\_\_.

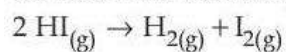
Given **6**  
Answer :

Question Type : **SA**

Question ID : **533543459**

Status : **Answered**

**Q.84** Consider the following data for the given reaction



	1	2	3
HI (mol L <sup>-1</sup> )	0.005	0.01	0.02
Rate (mol L <sup>-1</sup> s <sup>-1</sup> )	$7.5 \times 10^{-4}$	$3.0 \times 10^{-3}$	$1.2 \times 10^{-2}$

The order of the reaction is \_\_\_\_\_.

Given --  
Answer :

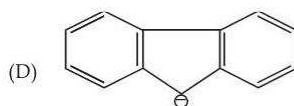
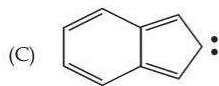
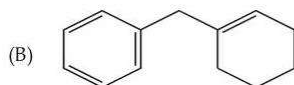
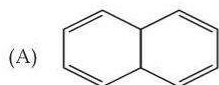
Question Type : SA  
Question ID : 533543463  
Status : Not Answered

**Q.85** 3-Methylhex-2-ene on reaction with HBr in presence of peroxide forms an addition product (A).  
The number of possible stereoisomers for 'A' is \_\_\_\_\_.

Given 4  
Answer :

Question Type : SA  
Question ID : 533543466  
Status : Answered

**Q.86** Among the given organic compounds, the total number of aromatic compounds is \_\_\_\_\_.



Given --  
Answer :

Question Type : SA  
Question ID : 533543465  
Status : Not Answered

**Q.87**

The number of electrons present in all the completely filled subshells having  $n=4$  and  $s = +\frac{1}{2}$  is \_\_\_\_\_.

(Where  $n$  = principal quantum number and  $s$  = spin quantum number)

Given 16

Answer :

Question Type : SA

Question ID : 533543458

Status : Answered

**Q.88**

Among the following, total number of meta directing functional groups is \_\_\_\_\_.

(Integer based)

$-\text{OCH}_3$ ,  $-\text{NO}_2$ ,  $-\text{CN}$ ,  $-\text{CH}_3$ ,  $-\text{NHCOCH}_3$ ,  $-\text{COR}$ ,  $-\text{OH}$ ,  $-\text{COOH}$ ,  $-\text{Cl}$

Given 4

Answer :

Question Type : SA

Question ID : 533543464

Status : Answered

**Q.89**

Mass of methane required to produce 22 g of  $\text{CO}_2$  after complete combustion is \_\_\_\_\_ g.

( Given Molar mass in  $\text{g mol}^{-1}$  C = 12.0

H = 1.0

O = 16.0)

Given 8

Answer :

Question Type : SA

Question ID : 533543457

Status : Answered

**Q.90**

If three moles of an ideal gas at 300 K expand isothermally from  $30 \text{ dm}^3$  to  $45 \text{ dm}^3$  against a constant opposing pressure of 80 kPa, then the amount of heat transferred is \_\_\_\_\_ J.

Given --

Answer :

Question Type : SA

Question ID : 533543460

Status : Not Answered