

JEE MAIN 2026 · QUESTION PAPER

# 5 Apr 2026 **Shift 2**

75 questions in exam order, with answer key

| Subject              | Section A multiple choice                   | Section B numerical value |
|----------------------|---------------------------------------------|---------------------------|
| ● <b>Physics</b>     | <b>20</b> Q1 to Q20                         | <b>5</b> Q21 to Q25       |
| ● <b>Chemistry</b>   | <b>20</b> Q26 to Q45                        | <b>5</b> Q46 to Q50       |
| ● <b>Mathematics</b> | <b>20</b> Q51 to Q70                        | <b>5</b> Q71 to Q75       |
| <b>In this PDF</b>   | <b>75</b> questions · answer key at the end |                           |

- 1 Set a 3 hour timer and attempt the paper in one sitting, like the real exam.
- 2 Check yourself against the answer key at the end. Every question names its chapter, so you can see where marks went.
- 3 Got one wrong? Tap “Step-by-step solution” at the top right of it for the full working, where available.

## Attempt this paper online

The same questions in the same order, with instant answer checking and step-by-step solutions where available.

[prepwis.in/pyqs/paper/2026-04-05-evening](https://prepwis.in/pyqs/paper/2026-04-05-evening) · Free, no signup needed to start

Answers follow NTA's final answer keys. Typing errors are possible, so check doubtful answers against the official key. Spotted a mistake? [prepwis.in/feedback](https://prepwis.in/feedback) · Terms: [prepwis.in/terms](https://prepwis.in/terms)

**Q1** Electromagnetic Waves

[Step-by-step solution](#) › [prepwise.in/questions/ImuFTFbFCq](https://www.prepwise.in/questions/ImuFTFbFCq)

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

**Assertion (A):** The electromagnetic wave exerts pressure on the surface on which they are allowed to fall.

**Reason (R):** There is no mass associated with the electromagnetic waves.

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

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

**Q2** Gravitation

[Step-by-step solution](#) › [prepwise.in/questions/eNtnAAsIiu](https://www.prepwise.in/questions/eNtnAAsIiu)

A body of mass  $m$  is taken from the surface of earth to a height equal to twice the radius of earth ( $R_e$ ). The increase in potential energy will be \_\_\_\_.

( $g$  is acceleration due to gravity at the surface of earth)

- (A)  $\frac{1}{2}mgR_e$
- (B)  $\frac{3}{4}mgR_e$
- (C)  $\frac{1}{4}mgR_e$
- (D)  $\frac{2}{3}mgR_e$

**Q3** Moving Charges & Magnetism

[Step-by-step solution](#) › [prepwise.in/questions/LVApEd6ZXB](https://www.prepwise.in/questions/LVApEd6ZXB)

A particle of charge  $q$  and mass  $m$  is projected from origin with an initial velocity  $\vec{v} = \left(\frac{v_0}{\sqrt{2}}\hat{x} + \frac{v_0}{\sqrt{2}}\hat{y}\right)$ . There exists a uniform magnetic field  $\vec{B} = B_0\hat{z}$  and a space varying electric field  $\vec{E} = E_0e^{-\lambda x}\hat{x}$  within the region  $0 \leq x \leq L$ . After travelling a distance such that  $x$ -coordinate has changed from  $x = 0$  to  $x = L$ , the change in the kinetic energy is \_\_\_\_.

- (A)  $\frac{qE_0}{\lambda} [1 - e^{-\lambda L}]$
- (B)  $\left(\frac{v_0qB_0}{2\lambda}\right) [2 - e^{-2\lambda L}]$
- (C)  $\frac{qE_0}{\lambda} [1 + e^{-\lambda L}]$
- (D)  $q \left(\frac{E_0 + v_0B_0}{\lambda}\right) [1 - e^{-\lambda L/2}]$

**Q4** Rotational Motion

[Step-by-step solution](#) › [prepwise.in/questions/cy9MxC6hna](https://www.prepwise.in/questions/cy9MxC6hna)

A wheel initially at rest is subjected to a uniform angular acceleration about its axis. In the first 2 s it rotates through an angle  $\theta_1$  and in the next 2 s it rotates through an angle  $\theta_2$ . The ratio  $\frac{\theta_2}{\theta_1}$  is \_\_\_\_.

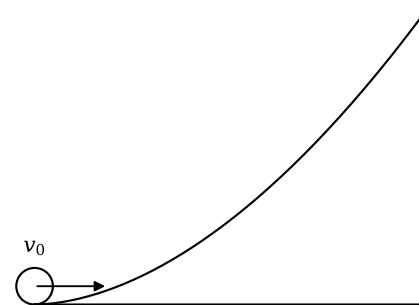
- (A) 6
- (B) 3
- (C) 4
- (D)  $\frac{1}{3}$

Attempt this paper online with instant answer checking › [prepwise.in/pyqs/paper/2026-04-05-evening](https://www.prepwise.in/pyqs/paper/2026-04-05-evening)

**Q5** Rotational Motion[Step-by-step solution](#) > [prepwiser.in/questions/SJRaPUN1Ih](https://www.prepwiser.in/questions/SJRaPUN1Ih)

An object of uniform density rolls up the curved path with the initial velocity  $v_0$  as shown in the figure. If the maximum height attained by an object is  $\frac{7v_0^2}{10g}$  ( $g$  = acceleration due to gravity), the object is a \_\_\_\_.

- (A) solid cylinder (B) ring  
(C) disc (D) solid sphere

**Q6** Wave Optics[Step-by-step solution](#) > [prepwiser.in/questions/LLDIzebaAw](https://www.prepwiser.in/questions/LLDIzebaAw)

The maximum intensity in a Young's double slit experiment is  $I_0$ . Distance between the slits ( $d$ ) is  $5\lambda$ , where  $\lambda$  is the wavelength of light used. The intensity of the fringe, exactly opposite to one of the slits on the screen, placed at  $D = 10d$  is \_\_\_\_.

- (A)  $\frac{I_0}{4}$  (B)  $\frac{I_0}{2}$  (C)  $I_0$  (D)  $\frac{3I_0}{4}$

**Q7** Nuclear Physics[Step-by-step solution](#) > [prepwiser.in/questions/UBAXPG8UKS](https://www.prepwiser.in/questions/UBAXPG8UKS)

Assuming the experimental mass of  $^{12}_6\text{C}$  as  $12u$ , the mass defect of  $^{12}_6\text{C}$  atom is \_\_\_\_  $\text{MeV}/c^2$ .

(Mass of proton =  $1.00727u$ , mass of neutron =  $1.00866u$ ,  $1u = 931.5\text{MeV}/c^2$  and  $c$  is the speed of the light in vacuum).

- (A) 127.5 (B) 89.03 (C) 272.0 (D) 92.0

**Q8** Semiconductors & Electronic Devices[Step-by-step solution](#) > [prepwiser.in/questions/hjYSkxuteC](https://www.prepwiser.in/questions/hjYSkxuteC)

In a semiconductor  $p$ - $n$  diode, the doping concentrations on  $p$ -side and  $n$ -side are  $10^{15} \text{ atoms}/\text{cm}^3$  and  $10^{18} \text{ atoms}/\text{cm}^3$ , respectively. Which one of the following statements is true?

- (A) Widths of depletion region on either side of the interface are equal  
(B) The depletion region width is more on  $p$ -side compared to that in  $n$ -side  
(C) The depletion region width is more on  $n$ -side compared to that in  $p$ -side  
(D) No depletion region forms because of unequal doping concentrations on  $p$  and  $n$ -sides

**Q9** Kinetic Theory of Gases[Step-by-step solution](#) > [prepwiser.in/questions/MH3tGsuYBa](https://www.prepwiser.in/questions/MH3tGsuYBa)

An ideal gas at pressure  $P$  and temperature  $T$  is expanding such that  $PT^3 = \text{constant}$ . The coefficient of volume expansion of the gas is \_\_\_\_.

- (A)  $\frac{2}{T}$  (B)  $\frac{1}{T}$  (C)  $\frac{4}{T}$  (D)  $\frac{3}{T}$

**Q10** Simple Harmonic Motion[Step-by-step solution](#) > [prepwiser.in/questions/dTns4wLRts](https://www.prepwiser.in/questions/dTns4wLRts)

Match List - I with List - II.

| List - I |                                      | List - II |                                                                                         |
|----------|--------------------------------------|-----------|-----------------------------------------------------------------------------------------|
| A.       | $\sin^2 \omega t$                    | I.        | Periodic with time period $T = \frac{\pi}{\omega}$ but not simple harmonic motion (SHM) |
| B.       | $\sin^3(2\omega t)$                  | II.       | Periodic with time period $T = \frac{2\pi}{\omega}$ but Not SHM                         |
| C.       | $\sin(\omega t) + \cos(\pi\omega t)$ | III.      | Periodic with time period $T = \frac{\pi}{\omega}$ and SHM                              |
| D.       | $\cos \omega t + \cos 2\omega t$     | IV.       | Non-periodic                                                                            |

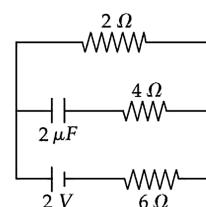
Choose the correct answer from the options given below:

- (A) A-III, B-I, C-IV, D-II (B) A-II, B-I, C-III, D-IV (C) A-III, B-II, C-IV, D-I (D) A-II, B-I, C-IV, D-III

**Q11** Electrostatics II: Potential & Capacitance[Step-by-step solution](https://www.prepwiser.in/questions/d_RkrOvxup) > prepwiser.in/questions/d\_RkrOvxup

Under steady state condition the potential difference across the capacitor in the circuit is \_\_\_\_ V.

- (A) 0.5 (B) 1.5 (C) 0 (D) 2

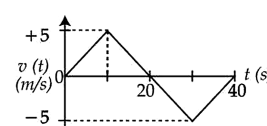
**Q12** Dual Nature of Radiation & Matter[Step-by-step solution](https://www.prepwiser.in/questions/Yy_MWi1ENE) > prepwiser.in/questions/Yy\_MWi1ENE

An electron is travelling with a velocity  $v$  in free space and when it enters a medium, its velocity is reduced by 20%. The de Broglie wavelength of electron in the medium is  $\alpha\lambda_0$ , where  $\lambda_0$  is its de Broglie wavelength in free space. The value of  $\alpha$  is \_\_\_\_.

- (A) 1.20 (B) 1.0 (C) 1.25 (D) 0.75

**Q13** Rectilinear Motion[Step-by-step solution](https://www.prepwiser.in/questions/HuxdhWYvCC) > prepwiser.in/questions/HuxdhWYvCC

The velocity ( $v$ ) versus time ( $t$ ) plot of a particle is shown in the figure, for a time interval of 40 s. The total distance travelled by the particle and the average velocity during this period are, respectively



- (A) 25 m and zero (B) 50 m and zero (C) 100 m and zero (D) 100 m and 2.5m/s

**Q14** Units, Dimensions & Errors[Step-by-step solution](https://www.prepwiser.in/questions/j0RIqmmKBh) > prepwiser.in/questions/j0RIqmmKBh

Match List - I with List - II.

| List - I |              | List - II |                                 |
|----------|--------------|-----------|---------------------------------|
| A.       | Meter (L)    | I.        | $\sqrt{\frac{hc}{G}}$           |
| B.       | Second (S)   | II.       | $\sqrt{\frac{Gh}{c^3}}$         |
| C.       | Kilogram (M) | III.      | $\sqrt{\frac{K^2 L^2 c^3}{Gh}}$ |
| D.       | Kelvin (K)   | IV.       | $\sqrt{\frac{Gh}{c^3}}$         |

where  $h$  (Planck's constant),  $G$  (gravitational constant) and  $c$  (speed of light in vacuum) as fundamental units.

Choose the correct answer from the options given below:

- (A) A-II, B-IV, C-I, D-III (B) A-IV, B-II, C-I, D-III (C) A-IV, B-I, C-II, D-III (D) A-III, B-I, C-II, D-IV

**Q15** Units, Dimensions & Errors[Step-by-step solution](https://www.prepwiser.in/questions/zoLqEz1NW1) > prepwiser.in/questions/zoLqEz1NW1

In an experiment to determine the resistance of a given wire using Ohm's law, the voltmeter and ammeter readings are noted as 10 V and 5 A, respectively. The least counts of voltmeter and ammeter are 500 mV and 200 mA, respectively. The estimated error in the resistance measurement is \_\_\_\_  $\Omega$

- (A) 0.25 (B) 2 (C) 2.5 (D) 0.18

**Q16** Work, Energy & Power[Step-by-step solution](https://www.prepwiser.in/questions/BMcQhqAeT7) > prepwiser.in/questions/BMcQhqAeT7

A mass of 1 kg is kept on a inclined plane with  $30^\circ$  inclination with respect to horizontal plane and it is at rest initially. Then the whole assembly is moved up with constant velocity of  $4\text{ m/s}$ . The work done by the frictional force in time 2 s is \_\_\_\_ J. (Take  $g = 10\text{ m/s}^2$ )

- (A) 20 (B) 25 (C) 30 (D) 10

**Q17** Electromagnetic Induction[Step-by-step solution](https://www.prepwisar.in/questions/TTukQ8M-n6) › prepwisar.in/questions/TTukQ8M-n6

A metal rod of length  $L$  rotates about one end at origin with a uniform angular velocity  $\omega$ . The magnetic field radially falls off as  $B(r) = B_0 e^{-\lambda r}$ ;  $\lambda$  being a positive constant. The emf induced (neglecting the centripetal force on electrons in the rod) is:

- (A)  $B_0 \omega \left[ \frac{1}{\lambda^2} - e^{-\lambda L} \left( \frac{1}{\lambda^2} + \frac{L}{\lambda} \right) \right]$  (B)  $B_0 \omega \left[ \frac{1}{\lambda^2} + e^{-\lambda L} \left( \frac{1}{\lambda^2} + \frac{L}{\lambda} \right) \right]$   
(C)  $B_0 \omega \left[ \frac{4}{\lambda^2} - e^{-2\lambda L} \left( \frac{1}{\lambda^2} + \frac{2L}{\lambda} \right) \right]$  (D)  $B_0 \omega \left[ \frac{3}{\lambda^2} - e^{-3\lambda L} \left( \frac{3}{\lambda^2} + \frac{L}{\lambda} \right) \right]$

**Q18** Ray Optics[Step-by-step solution](https://www.prepwisar.in/questions/hnMn_OXHnd) › prepwisar.in/questions/hnMn\_OXHnd

A thin convex lens and a thin concave lens are kept in contact and are co-axial. Which of the following statements is correct for this combination of two lenses?

- (A) behaves as concave lens if  $|f_{\text{convex}}| > |f_{\text{concave}}|$   
(B) behaves as concave lens if  $|f_{\text{convex}}| < |f_{\text{concave}}|$   
(C) behaves as convex lens if  $|f_{\text{convex}}| > |f_{\text{concave}}|$   
(D) Focal length of the lens system will change if the positions of two lenses are interchanged

**Q19** Ray Optics[Step-by-step solution](https://www.prepwisar.in/questions/Du4FbPgXvn) › prepwisar.in/questions/Du4FbPgXvn

An object  $AB$  is placed 15 cm on the left of a convex lens  $P$  of focal length 10 cm. Another convex lens  $Q$  is now placed 15 cm right of lens  $P$ . If the focal length of lens  $Q$  is 15 cm, the final image is \_\_\_\_.

- (A) virtual, formed at 7.5 cm right of lens  $Q$ , with a size bigger than that of  $AB$  real, formed at 7.5 cm right of lens  
(B)  $Q$ , with a size same as that of  $AB$   
(C) formed at infinity.  
(D) real, formed at 7 cm right of lens  $Q$ , with a size smaller than that of  $AB$

**Q20** Surface Tension[Step-by-step solution](https://www.prepwisar.in/questions/mh8xLolXx5) › prepwisar.in/questions/mh8xLolXx5

Eight mercury drops, each of radius  $r$ , coalesce to form a bigger drop. The surface energy released in this process is \_\_\_\_ - ( $S$  is the surface tension of mercury).

- (A)  $8\pi r^2 S$  (B)  $16\pi r^2 S$  (C)  $64\pi r^2 S$  (D)  $4\pi r^2 S$

**Physics Section B · Numerical value**

Q21 to Q25

**Q21** Alternating Current **NUMERICAL**[Step-by-step solution](https://www.prepwisar.in/questions/pXgn3t_mYQ) › prepwisar.in/questions/pXgn3t\_mYQ

A series LCR circuit with  $R = 20\Omega$ ,  $L = 1.6\text{H}$  and  $C = 40\mu\text{F}$  is connected to a variable frequency a.c. source. The inductive reactance at resonant frequency is \_\_\_\_  $\Omega$ .

**Q22** Current Electricity **NUMERICAL**[Step-by-step solution](https://www.prepwisar.in/questions/Cc3IwyVQnl) › prepwisar.in/questions/Cc3IwyVQnl

When an external resistance of  $5\Omega$  is connected across terminals of a cell, a current of 0.25 A flows through it. When the  $5\Omega$  resistor is replaced by a  $2\Omega$  resistor, a current of 0.5 A flows through it. The internal resistance of the cell is \_\_\_\_  $\Omega$ .

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The heat extracted out of  $x$  gram of water initially at  $50^\circ\text{C}$  to cool it down to  $0^\circ\text{C}$  is sufficient to evaporate  $(1000 - x)$  gram of water also initially at  $50^\circ\text{C}$ . The value of  $x$  (closest integer) is \_\_\_\_\_.  
(Take latent heat of water  $2256\text{kJ/kg.K}$ , specific heat capacity of water  $4200\text{J/kg.K}$ )

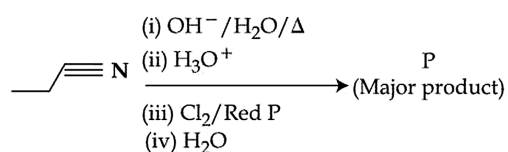
A circular loop of radius  $20\text{ cm}$  and resistance  $2\Omega$  is placed in a time varying magnetic field  $\vec{B} = (2t^2 + 2t + 3)\text{ T}$ . At  $t = 0$ , for the plane of the loop being perpendicular to the magnetic field and, the induced current in the loop at  $t = 3\text{ s}$  is  $\frac{\alpha}{50}\text{ A}$ . The value of  $\alpha$  is \_\_\_\_\_. (Take  $\pi = 22/7$ )

A copper wire of length  $3\text{ m}$  is stretched by  $3\text{ mm}$  by applying an external force. The volume of the wire is  $600 \times 10^{-6}\text{ m}^3$ . The elastic potential energy stored in the wire in stretched condition would be \_\_\_\_ J.  
(Given Young modulus of copper  $= 1.1 \times 10^{11}\text{ N/m}^2$ )

## Chemistry Section A · Multiple choice

Q26 to Q45

Complete the following reaction sequence and give the name of major product 'P'.



(A) 2-Chloropropanoic acid

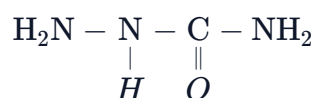
(B) 3-Chloropropanoic acid

(C) 1-Chloropropane

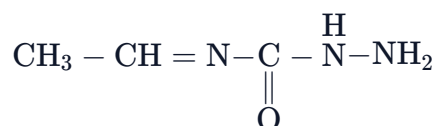
(D) 2-Chloropropane

Given below are two statements:

**Statement I:** The condensation reaction between  $\text{CH}_3 - \text{CH} = \text{O}$  and



under optimum pH will produce



**Statement II:** The molecule,



will generate  $\text{Ph} - \text{CH} = \text{O}$  in the presence of dilute acid.

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

(A) Both **Statement I** and **Statement II** are true(B) Both **Statement I** and **Statement II** are false(C) **Statement I** is true but **Statement II** is false(D) **Statement I** is false but **Statement II** is true

The reaction  $A(g) \rightleftharpoons B(g) + C(g)$  was initiated with the amount 'a' of  $A(g)$ . At equilibrium it is found that the amount of  $A(g)$  remaining is  $(a - x)$  at a total pressure of  $p$ .

The equilibrium constant  $K_p$  of the reaction can be calculated from the expression:

- (A)  $\frac{x^2}{a^2 + x^2} \times p$       (B)  $\frac{x^2}{a^2 - x^2} \times p$       (C)  $\frac{a + x^2}{x^2} \times p$       (D)  $\frac{a^2 - x^2}{x^2} \times p$

Given below are two statements:

**Statement I:** Presence of large number of unpaired electrons in transition metal atoms results in higher enthalpies of their atomisation.

**Statement II:**  $d_{xy} = d_{xz} = d_{yz} < d_{x^2-y^2} = d_{z^2}$  and  $d_{x^2-y^2} = d_{z^2} < d_{xy} = d_{xz} = d_{yz}$  are the d-orbital splittings in  $[Fe(H_2O)_6]^{3+}$  and  $[Ni(Cl)_4]^{2-}$  complex ions respectively.

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

- (A) Both Statement I and Statement II are correct  
 (B) Both Statement I and Statement II are incorrect  
 (C) Statement I is correct but Statement II is incorrect  
 (D) Statement I is incorrect but Statement II is correct

Identify the correct statements from the following

- A.  $[Fe(C_2O_4)_3]^{3-}$  is the most stable complex among  $[Fe(OH)_6]^{3-}$ ,  $[Fe(C_2O_4)_3]^{3-}$  and  $[Fe(SCN)_6]^{3-}$   
 B. The stability of  $[Cu(NH_3)_4]^{2+}$  is greater than that of  $[Cu(en)_2]^{2+}$   
 C. The hybridization of Fe in  $K_4[Fe(CN)_6]$  is  $d^2sp^3$   
 D.  $[Fe(NO_2)_3Cl_3]^{3-}$  exhibits linkage isomerism  
 E.  $NO_2^-$  and  $SCN^-$  ligands are NOT ambidentate ligands

Choose the correct answer from the options given below:

- (A) A, B, C, D and E      (B) B, C and D only      (C) A, C and D only      (D) A, C and E only

Which of the following statement(s) is/are true?

- A. If two orbitals have the same value of  $(n + l)$ , the orbital with lower value of  $n$  will have lower energy.  
 B. Energies of the orbitals in the same subshell increase with increase in atomic number.  
 C. The size of  $2p_x$  orbital is less than the size of  $3p_x$  orbital.  
 D. Among 5f, 6s, 4d, 5p and 5d orbitals, none of the orbitals have 2 radial nodes.

Choose the correct answer from the options given below:

- (A) A, B and C only      (B) A and C only      (C) C and D only      (D) A only

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A paper dipped in a dil.  $\text{H}_2\text{SO}_4$  solution of 'X' upon treatment with  $\text{SO}_2$  gas turns into green. The compound 'X' is:

- (A) KI – strach      (B)  $\text{KMnO}_4$       (C)  $\text{Pb}(\text{CH}_3\text{COO})_2$       (D)  $\text{K}_2\text{Cr}_2\text{O}_7$

Match List - I with List - II.

| List - I<br>Purification technique |                                     | List - II<br>Used to separate |                                                     |
|------------------------------------|-------------------------------------|-------------------------------|-----------------------------------------------------|
| A.                                 | Simple distillation                 | I.                            | Steam volatile compound                             |
| B.                                 | Fractional distillation             | II.                           | Two liquids with large difference in boiling points |
| C.                                 | Steam distillation                  | III.                          | Liquid decomposing at its boiling point             |
| D.                                 | Distillation under reduced pressure | IV.                           | Two liquids with close boiling points               |

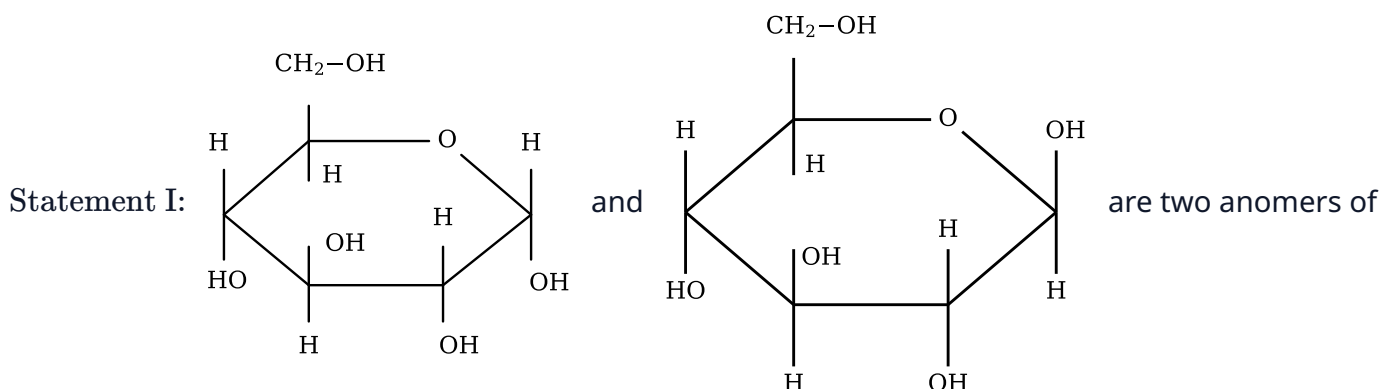
Choose the correct answer from the options given below:

- (A) A-II, B-III, C-I, D-IV      (B) A-II, B-IV, C-I, D-III      (C) A-II, B-IV, C-III, D-I      (D) A-IV, B-III, C-II, D-I

Identify the incorrect statement about tertiary structure of proteins.

- (A) They can be fibrous or globular in structure.  
 (B) The main forces that stabilize the structure are hydrogen bonding, disulphide links, van der Waals and electrostatic forces of attraction.  
 (C) The structure remains intact when exposed to pH changes.  
 (D) A linear polypeptide chain will convert to a secondary structure and then further folding of the secondary structure will convert to tertiary structure.

Given below are two statements:



D-(+)-glucose.

Statement II : The open chain forms of D-glucose and D-fructose contain three similar chiral carbons at  $\text{C}_3$ ,  $\text{C}_4$  and  $\text{C}_5$ .

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

- (A) Both Statement I and Statement II are true      (B) Both Statement I and Statement II are false  
 (C) Statement I is true but Statement II is false      (D) Statement I is false but Statement II is true

**Q36** Electrochemistry[Step-by-step solution](https://www.prepwisar.in/questions/bexOfvQej4) › prepwisar.in/questions/bexOfvQej4

One half cell in a voltaic cell is constructed by dipping silver rod in  $\text{AgNO}_3$  solution of unknown concentration, other half cell is Zn rod dipped in 1 molar solution of  $\text{ZnSO}_4$ .

A voltage of 1.60 V is measured at 298 K for this cell. What is the concentration of  $\text{Ag}^+$  ions used in terms of  $\log x$  ( $x = [\text{Ag}^+]$ )?

$$E_{\text{Zn}^{2+}/\text{Zn}}^\ominus = -0.76\text{V}, E_{\text{Ag}^+/\text{Ag}}^\ominus = +0.80\text{V}, \frac{2.303RT}{F} = 0.059\text{V}$$

**(A)**  $\frac{2}{3.9}$

**(B)**  $\frac{4}{5.9}$

**(C)**  $\frac{2.9}{2}$

**(D)**  $\frac{5.9}{4}$

**Q37** General Organic Chemistry (GOC)[Step-by-step solution](https://www.prepwisar.in/questions/l3QzLCwZRq) › prepwisar.in/questions/l3QzLCwZRq

IUPAC name of the some alkenes are given below.

Find out the correct stability order.

A. 2-Methylbut-2-ene

B. cis-But-2-ene

C. 2,3-Dimethylbut-2-ene

D. Prop-1-ene

Choose the correct answer from the options given below:

**(A)**  $C > A > B > D$

**(B)**  $C > A > D > B$

**(C)**  $B > D > A > C$

**(D)**  $A > B > C > D$

**Q38** General Organic Chemistry (GOC)[Step-by-step solution](https://www.prepwisar.in/questions/_AMAVhgYGC) › prepwisar.in/questions/\_AMAVhgYGC

Identify the correct IUPAC name of hydrocarbon ( $x$ ) containing three primary carbon atoms and with molar mass  $72\text{g mol}^{-1}$ .

**(A)** 1, 1 - Dimethylcyclopropane**(B)** 2, 2 - Dimethylpropane**(C)** 2 - Methylbutane**(D)** n-pentane**Q39** p-Block Elements: Part II (Group 15-18)[Step-by-step solution](https://www.prepwisar.in/questions/gi48OpUImm) › prepwisar.in/questions/gi48OpUImm

Given below are two statements:

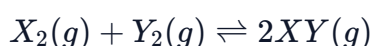
Statement I: Aluminium upon reaction with NaOH forms  $[\text{Al}(\text{OH})_6]^{3-}$  ion.

Statement II : The geometry of  $\text{ICl}_4^-$ ,  $\text{ClO}_3^-$  and  $\text{IBr}_2^-$  is square planar, pyramidal and linear respectively.

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

**(A)** Both Statement I and Statement II are true**(B)** Both Statement I and Statement II are false**(C)** Statement I is true but Statement II is false**(D)** Statement I is false but Statement II is true**Q40** Chemical Thermodynamics[Step-by-step solution](https://www.prepwisar.in/questions/dk6j0uHR6k) › prepwisar.in/questions/dk6j0uHR6k

Consider the following data for the reaction



at  $600\text{K}^\circ$ . The  $\Delta_r G^\ominus$  (in  $\text{kJ mol}^{-1}$ ) for the reaction is:

| Compound               | $\Delta_f H_{600\text{K}}^\ominus$ ( $\text{kJ mol}^{-1}$ ) | $S_{600\text{K}}^\ominus$ ( $\text{J mol}^{-1} \text{K}^{-1}$ ) |
|------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|
| $\text{XY}(\text{g})$  | 42                                                          | 200                                                             |
| $\text{X}_2(\text{g})$ | 8                                                           | 140                                                             |
| $\text{Y}_2(\text{g})$ | 80                                                          | 250                                                             |

**(A)** -21000

**(B)** -10

**(C)** -1000

**(D)** -9.012

The correct order of molar heat capacities measured at 298 K and 1 bar is:

- (A) Copper(s) > Bromine(l) > Helium(g)      (B) Bromine(l) > Copper(s) > Helium(g)  
(C) Helium(g) > Bromine(l) > Copper(s)      (D) Helium(g) > Bromine(l) = Copper(s)

The covalent radii of atoms  $A$  and  $B$  are  $r_A$  and  $r_B$ , respectively. The covalent bond length and total length of AB molecule are respectively

- (A)  $(r_A + r_B), 2(r_A + r_B)$       (B)  $\frac{1}{2}(r_A + r_B), (r_A + r_B)$   
(C)  $(r_A + r_B), (r_A + r_B)$       (D)  $2(r_A + r_B), \frac{1}{2}(r_A + r_B)$

Given below are two statements:

**Statement I:** Heating benzamide with bromine in an ethanolic solution of sodium hydroxide will give benzylamine.

**Statement II:** Nitration of aniline with  $\text{HNO}_3/\text{H}_2\text{SO}_4$  at 288 K produces *m*-nitroaniline in higher amount than *o*-nitroaniline (pH adjusted).

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

- (A) Both Statement I and Statement II are true      (B) Both Statement I and Statement II are false  
(C) Statement I is true but Statement II is false      (D) Statement I is false but Statement II is true

Given below are two statements:

**Statement I:** The number of pairs among  $[\text{Al}_2\text{O}_3, \text{Cr}_2\text{O}_3]$ ,  $[\text{Cl}_2\text{O}_7, \text{Mn}_2\text{O}_7]$ ,  $[\text{Na}_2\text{O}, \text{V}_2\text{O}_3]$  and  $[\text{CO}, \text{N}_2\text{O}]$  that contain oxides of same nature (acidic, basic, neutral or amphoteric) is 4.

**Statement II:** Among  $\text{Na}_2\text{O}$ ,  $\text{Al}_2\text{O}_3$ ,  $\text{CO}$  and  $\text{Cl}_2\text{O}_7$ , the most basic and acidic oxides are  $\text{Na}_2\text{O}$  and  $\text{Cl}_2\text{O}_7$ , respectively.

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

- (A) Both Statement I and Statement II are true      (B) Both Statement I and Statement II are false  
(C) Statement I is true but Statement II is false      (D) Statement I is false but Statement II is true

What volume of hydrogen gas at STP would be liberated by action of 50 mL of  $\text{H}_2\text{SO}_4$  of 50% purity (density =  $1.3\text{g mL}^{-1}$ ) on 20 g of zinc?

Given : Molar mass of H, O, S, Zn are 1, 16, 32,  $65\text{g mol}^{-1}$  respectively.

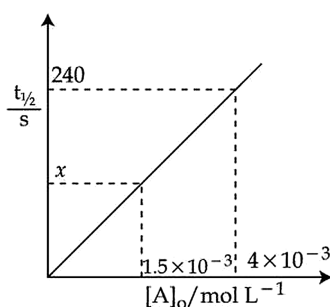
- (A) 5.824 L      (B) 7.428 L      (C) 6.892 L      (D) 8.375 L

## Chemistry Section B · Numerical value

Q46 to Q50

The total number of unpaired electrons present in the  $d^3$ ,  $d^4$  (low spin)  $d^5$  (high spin),  $d^6$  (high spin) and  $d^7$  (low spin) octahedral complex systems is \_\_\_\_.

For a reaction  $A \rightarrow P$  at T K, the half life ( $t_{1/2}$ ) is plotted as a function of initial concentration  $[A]_0$  of A as given below.



The value of  $x$  in the given figure is \_\_\_\_ s (Nearest integer)

RMgI when treated with ice cold water liberated a gas which occupied  $1.4 \text{ dm}^3/\text{g}$  at STP. The gas produced is further reacted with iodine in presence of  $\text{HIO}_3$  to give compound (X). Compound (X) in presence of Na and dry ether produced compound (Y). Molar mass of compound (Y) is \_\_\_\_  $\text{gmol}^{-1}$ . (Nearest integer)

At 298 K, the molar conductivity of  $x\%(\text{w/w})$  MX solution (aqueous) is  $123.5 \text{ Scm}^2 \text{ mol}^{-1}$ . The conductance of same solution is  $1.9 \times 10^{-3} \text{ S}$ . The value of  $x$  is \_\_\_\_  $\times 10^{-2}$ .

(Given: cell constant =  $1.3 \text{ cm}^{-1}$ ; molar mass of MX is  $75 \text{ gmol}^{-1}$ , density of aqueous solution of MX at 298 K is  $1.0 \text{ gmL}^{-1}$ )

20 g hemoglobin in a 1 L aqueous solution (A) at 300 K is separated from pure water by semi permeable membrane. At equilibrium the height of solution in a tube dipped in a solution (A) is found to be 80.0 mm higher than the tube dipped in water.

The molar mass of hemoglobin is \_\_\_\_  $\text{kgmol}^{-1}$ . (Nearest integer)

(Given:  $g = 10 \text{ ms}^{-2}$ ,  $R = 8.3 \text{ kPa dm K}^{-1} \text{ mol}^{-1}$ , density of solution =  $1000 \text{ kgm}^{-3}$ )

## Mathematics Section A · Multiple choice

Q51 to Q70

Let  $z_1, z_2 \in \mathbb{C}$  be the distinct solutions of the equation  $z^2 + 4z - (1 + 12i) = 0$ .

Then  $|z_1|^2 + |z_2|^2$  is equal to:

(A) 18

(B) 22

(C) 29

(D) 34

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**Q52** Determinants[Step-by-step solution](#) › [prepwisar.in/questions/bfAO2wbI7W](https://www.prepwisar.in/questions/bfAO2wbI7W)

If  $f : \mathbb{N} \rightarrow \mathbb{Z}$  is defined by

$$f(n) = \begin{vmatrix} n & -1 & -5 \\ -2n^2 & 3(2k+1) & 2k+1 \\ -3n^3 & 3k(2k+1) & 3k(k+2)+1 \end{vmatrix}, k \in \mathbb{N},$$

and  $\sum_{n=1}^k f(n) = 98$ , then  $k$  is equal to:

- (A) 3 (B) 4 (C) 5 (D) 6

**Q53** Matrices[Step-by-step solution](#) › [prepwisar.in/questions/Qv0rhGhIOJ](https://www.prepwisar.in/questions/Qv0rhGhIOJ)

Let  $M$  be a  $3 \times 3$  matrix such that  $M \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} = \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix}$ ,  $M \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix} = \begin{pmatrix} 0 \\ 1 \\ 2 \end{pmatrix}$  and

$$M \begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix} = \begin{pmatrix} -1 \\ 1 \\ 1 \end{pmatrix}. \text{ If } M \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 1 \\ 7 \\ 11 \end{pmatrix}, \text{ then } x + y + z \text{ equals:}$$

- (A) 4 (B) 5 (C) 7 (D) 11

**Q54** Statistics[Step-by-step solution](#) › [prepwisar.in/questions/piIMQcp2s4](https://www.prepwisar.in/questions/piIMQcp2s4)

A variable  $X$  takes values  $0, 0, 2, 6, 12, 20, \dots, n(n-1)$  with frequencies

${}^nC_0, {}^nC_1, {}^nC_2, {}^nC_3, {}^nC_4, {}^nC_5, \dots, {}^nC_n$ , respectively. If the mean of this data is 60, then its median is:

- (A) 56 (B) 42 (C) 72 (D) 90

**Q55** Vectors[Step-by-step solution](#) › [prepwisar.in/questions/PQPcwDplgy](https://www.prepwisar.in/questions/PQPcwDplgy)

Let  $O$  be the origin,  $\overrightarrow{OP} = \vec{a}$  and  $\overrightarrow{OQ} = \vec{b}$ . If  $R$  is the point on  $\overrightarrow{OP}$  such that  $\overrightarrow{OP} = 5\overrightarrow{OR}$ , and  $M$  is the point such that  $\overrightarrow{OQ} = 5\overrightarrow{RM}$ , then  $\overrightarrow{PM}$  is equal to:

- (A)  $\frac{1}{5}(\vec{a} - 4\vec{b})$  (B)  $\frac{1}{5}(\vec{b} - 4\vec{a})$  (C)  $\frac{1}{5}(-\vec{a} + 4\vec{b})$  (D)  $\frac{1}{5}(-\vec{b} + 4\vec{a})$

**Q56** Definite Integration[Step-by-step solution](#) › [prepwisar.in/questions/CKJlTifEW6](https://www.prepwisar.in/questions/CKJlTifEW6)

Let  $(2^{1-a} + 2^{1+a}), f(a), (3^a + 3^{-a})$  be in A.P. and  $\alpha$  be the minimum value of  $f(a)$ . Then the value of the integral  $\int_{\log_e(\alpha-1)}^{\log_e(\alpha)} \frac{dx}{(e^{2x} - e^{-2x})}$  is:

- (A)  $\frac{1}{2} \log_e \left( \frac{4}{3} \right)$  (B)  $\frac{1}{4} \log_e \left( \frac{4}{3} \right)$  (C)  $\frac{1}{2} \log_e \left( \frac{8}{5} \right)$  (D)  $\frac{1}{4} \log_e \left( \frac{8}{5} \right)$

**Q57** Parabola[Step-by-step solution](#) › [prepwisar.in/questions/WmDHUI-fjO](https://www.prepwisar.in/questions/WmDHUI-fjO)

Let the directrix of the parabola  $P : y^2 = 8x$ , cut  $x$ -axis at the point  $A$ . Let  $B(\alpha, \beta), \alpha > 1$ , be a point on  $P$  such that the slope of  $AB$  is  $3/5$ . If  $BC$  is a focal chord of  $P$ , then six times the area of  $\triangle ABC$  is:

- (A) 80 (B) 160 (C) 174 (D) 192

**Q58** Binomial Theorem[Step-by-step solution](#) › [prepwisar.in/questions/txJNX5Pgnb](https://www.prepwisar.in/questions/txJNX5Pgnb)

The coefficient of  $x^2$  in the expansion of  $(2x^2 + \frac{1}{x})^{10}, x \neq 0$ , is:

- (A) 3240 (B) 3360 (C) 3480 (D) 3600

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**Q59** Differential Equations[Step-by-step solution](https://www.prepwiser.in/questions/5QA9aQXz_N) › prepwiser.in/questions/5QA9aQXz\_N

Let  $f : [1, \infty) \rightarrow \mathbf{R}$  be a differentiable function defined as  $f(x) = \int_1^x f(t)dt + (1-x)(\log_e x - 1) + e$ . Then the value of  $f(f(1))$  is:

- (A)  $(1 + e^e)$  (B)  $(1 + e)$  (C)  $(1 + e + e^e)$  (D)  $1 + 2e$

**Q60** Limits[Step-by-step solution](https://www.prepwiser.in/questions/dKgQzVw8UK) › prepwiser.in/questions/dKgQzVw8UK

Let  $f(x) = \lim_{y \rightarrow 0} \frac{(1 - \cos(xy)) \tan(xy)}{y^3}$ . Then the number of solutions of the equation  $f(x) = \sin x$ ,  $x \in \mathbf{R}$  is:

- (A) 0 (B) 2 (C) 3 (D) 1

**Q61** Differentiation[Step-by-step solution](https://www.prepwiser.in/questions/Lw39Zq7msA) › prepwiser.in/questions/Lw39Zq7msA

Let  $f(x)$  and  $g(x)$  be twice differentiable functions satisfying  $f''(x) = g''(x)$  for all  $x \in \mathbf{R}$ ,  $f'(1) = 2g'(1) = 4$  and  $g(2) = 3f(2) = 9$ . Then  $f(25) - g(25)$  is equal to:

- (A) 20 (B) 40 (C) -20 (D) -40

**Q62** Permutations & Combinations[Step-by-step solution](https://www.prepwiser.in/questions/bgD-Ebg8dE) › prepwiser.in/questions/bgD-Ebg8dE

A box contains 5 blue, 6 yellow and 4 red balls. The number of ways, of drawing 8 balls containing at least two balls of each colour, is:

- (A) 4100 (B) 4140 (C) 4230 (D) 4290

**Q63** Quadratic Equations & Polynomial Inequalities[Step-by-step solution](https://www.prepwiser.in/questions/gjRmgXwRAv) › prepwiser.in/questions/gjRmgXwRAv

Let  $\alpha, \beta$  be the roots of the equation  $x^2 - x + p = 0$  and  $\gamma, \delta$  be the roots the equation  $x^2 - 4x + q = 0$ ;  $p, q \in \mathbf{Z}$ . If  $\alpha, \beta, \gamma, \delta$  are in G.P., then  $|p + q|$  equals:

- (A) 16 (B) 32 (C) 34 (D) 38

**Q64** Sequences & Series[Step-by-step solution](https://www.prepwiser.in/questions/XxWr9LMrOn) › prepwiser.in/questions/XxWr9LMrOn

If the sum of the first 10 terms of the series  $\frac{1}{1+1^4 \times 4} + \frac{2}{1+2^4 \times 4} + \frac{3}{1+3^4 \times 4} + \frac{4}{1+4^4 \times 4} + \dots$  is  $\frac{m}{n}$ ,  $\gcd(m, n) = 1$ , then  $m + n$  is equal to:

- (A) 256 (B) 264 (C) 276 (D) 284

**Q65** Sequences & Series[Step-by-step solution](https://www.prepwiser.in/questions/m-ITG6SF5n) › prepwiser.in/questions/m-ITG6SF5n

Let  $A_1, A_2, A_3, \dots, A_{39}$  be 39 arithmetic means between the numbers 59 and 159. Then the mean of  $A_{25}, A_{28}, A_{31}$  and  $A_{36}$  is equal to:

- (A) 129 (B) 136 (C) 131.50 (D) 134

**Q66** Three Dimensional Geometry[Step-by-step solution](https://www.prepwiser.in/questions/gxVhGWvnK7) › prepwiser.in/questions/gxVhGWvnK7

Let a triangle PQR be such that P and Q lie on the line  $\frac{x+3}{8} = \frac{y-4}{2} = \frac{z+1}{2}$  and are at a distance of 6 units from  $R(1, 2, 3)$ . If  $(\alpha, \beta, \gamma)$  is the centroid of  $\Delta PQR$ , then  $\alpha + \beta + \gamma$  is equal to:

- (A) 4 (B) 5 (C) 6 (D) 8

**Q67** Three Dimensional Geometry[Step-by-step solution](https://www.prepwiser.in/questions/jhcV_GiDxm) › prepwiser.in/questions/jhcV\_GiDxm

If the distance of the point  $(a, 2, 5)$  from the image of the point  $(1, 2, 7)$  in the line  $\frac{x}{1} = \frac{y-1}{1} = \frac{z-2}{2}$  is 4, then the sum of all possible values of  $a$  is equal to:

- (A) 11 (B) 9 (C) 6 (D) 4

**Q68** Circles[Step-by-step solution](#) › prepwiser.in/questions/D3NmjG17R9

Let the point P be the vertex of the parabola  $y = x^2 - 6x + 12$ . If a line passing through the point P intersects the circle  $x^2 + y^2 - 2x - 4y + 3 = 0$  at the points R and S, then the maximum value of  $(PR + PS)^2$  is:

- (A) 10 (B) 20 (C) 25 (D) 5

**Q69** Hyperbola[Step-by-step solution](#) › prepwiser.in/questions/nCPMvGamJD

Let the eccentricity  $e$  of a hyperbola satisfy the equation  $6e^2 - 11e + 3 = 0$ . If the foci of the hyperbola are  $(3, 5)$  and  $(3, -4)$ , then the length of its latus rectum is:

- (A)  $11/3$  (B)  $17/3$  (C)  $15/2$  (D)  $17/2$

**Q70** Probability: Advanced[Step-by-step solution](#) › prepwiser.in/questions/B7BgRSkthr

The probabilities that players A and B of a team are selected for the captaincy for a tournament are 0.6 and 0.4, respectively. If A is selected the captain, the probability that the team wins the tournament is 0.8 and if B is selected the captain, the probability that the team wins the tournament is 0.7. Then the probability, that the team wins the tournament, is:

- (A) 0.74 (B) 0.76 (C) 0.72 (D) 0.78

**Mathematics Section B · Numerical value**

Q71 to Q75

**Q71** Area Under Curves **NUMERICAL**[Step-by-step solution](#) › prepwiser.in/questions/ZpyCercrrL

Let  $f : \mathbf{R} \rightarrow \mathbf{R}$  be a function such that  $f(x) + 3f\left(\frac{\pi}{2} - x\right) = \sin x, x \in \mathbf{R}$ . Let the maximum value of  $f$  on  $\mathbf{R}$  be  $\alpha$ . If the area of the region bounded by the curves  $g(x) = x^2$  and  $h(x) = \beta x^3, \beta > 0$ , is  $\alpha^2$ , then  $30\beta^3$  is equal to \_\_\_\_.

**Q72** Straight Lines **NUMERICAL**[Step-by-step solution](#) › prepwiser.in/questions/ZVBPy1vO6u

From the point  $(-1, -1)$ , two rays are sent making angles of  $45^\circ$  with the line  $x + y = 0$ . These rays get reflected from the mirror  $x + 2y = 1$ . If the equations of the reflected rays are  $ax + by = 9$  and  $cx + dy = 7, a, b, c, d \in \mathbf{Z}$ , then the value of  $ad + bc$  is \_\_\_\_.

**Q73** Differential Equations **NUMERICAL**[Step-by-step solution](#) › prepwiser.in/questions/kWpJNRKsNx

Let  $y = y(x)$  be the solution of the differential equation  $(\tan x)^{1/2} dy = (\sec^3 x - (\tan x)^{3/2} y) dx, 0 < x < \frac{\pi}{2}, y\left(\frac{\pi}{4}\right) = \frac{6\sqrt{2}}{5}$ . If  $y\left(\frac{\pi}{3}\right) = \frac{4}{5}\alpha$ , then  $\alpha^4$  equals \_\_\_\_.

**Q74** Trigonometric Equations **NUMERICAL**[Step-by-step solution](#) › prepwiser.in/questions/q2ET0WDVIk

If  $S = \left\{ \theta \in [-\pi, \pi] : \cos \theta \cos \frac{5\theta}{2} = \cos 7\theta \cos \frac{7\theta}{2} \right\}$ , then  $n(S)$  is equal to \_\_\_\_.

**Q75** Relations & Functions (Basic) **NUMERICAL**[Step-by-step solution](#) › prepwiser.in/questions/Ku\_w6FkV9C

Let  $A = \{1, 4, 7\}$  and  $B = \{2, 3, 8\}$ . Then the number of elements, in the relation  $R = \{((a_1, b_1), (a_2, b_2)) \in ((A \times B) \times (A \times B)) : a_1 + b_2 \text{ divides } a_2 + b_1\}$  is \_\_\_\_.

## Answer key: JEE Main 2026 · 5 Apr · Shift 2

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Numbers match the question numbers above. For full working, open the solution link at the top right of each question.

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### Physics

|     |            |     |          |     |            |     |           |     |           |     |          |     |          |     |          |     |          |     |          |
|-----|------------|-----|----------|-----|------------|-----|-----------|-----|-----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 1.  | <b>B</b>   | 2.  | <b>D</b> | 3.  | <b>A</b>   | 4.  | <b>B</b>  | 5.  | <b>D</b>  | 6.  | <b>B</b> | 7.  | <b>B</b> | 8.  | <b>B</b> | 9.  | <b>C</b> | 10. | <b>A</b> |
| 11. | <b>A</b>   | 12. | <b>C</b> | 13. | <b>C</b>   | 14. | <b>B</b>  | 15. | <b>D</b>  | 16. | <b>A</b> | 17. | <b>A</b> | 18. | <b>A</b> | 19. | <b>B</b> | 20. | <b>B</b> |
| 21. | <b>200</b> | 22. | <b>1</b> | 23. | <b>922</b> | 24. | <b>44</b> | 25. | <b>33</b> |     |          |     |          |     |          |     |          |     |          |

### Chemistry

|     |           |     |           |     |           |     |           |     |           |     |          |     |          |     |          |     |          |     |          |
|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 26. | <b>A</b>  | 27. | <b>D</b>  | 28. | <b>B</b>  | 29. | <b>A</b>  | 30. | <b>C</b>  | 31. | <b>B</b> | 32. | <b>D</b> | 33. | <b>B</b> | 34. | <b>C</b> | 35. | <b>A</b> |
| 36. | <b>B</b>  | 37. | <b>A</b>  | 38. | <b>C</b>  | 39. | <b>D</b>  | 40. | <b>B</b>  | 41. | <b>B</b> | 42. | <b>A</b> | 43. | <b>D</b> | 44. | <b>A</b> | 45. | <b>C</b> |
| 46. | <b>15</b> | 47. | <b>90</b> | 48. | <b>30</b> | 49. | <b>15</b> | 50. | <b>62</b> |     |          |     |          |     |          |     |          |     |          |

### Mathematics

|     |           |     |          |     |           |     |           |     |           |     |          |     |          |     |          |     |          |     |          |
|-----|-----------|-----|----------|-----|-----------|-----|-----------|-----|-----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 51. | <b>D</b>  | 52. | <b>A</b> | 53. | <b>B</b>  | 54. | <b>A</b>  | 55. | <b>B</b>  | 56. | <b>B</b> | 57. | <b>B</b> | 58. | <b>B</b> | 59. | <b>A</b> | 60. | <b>C</b> |
| 61. | <b>B</b>  | 62. | <b>A</b> | 63. | <b>C</b>  | 64. | <b>C</b>  | 65. | <b>D</b>  | 66. | <b>C</b> | 67. | <b>C</b> | 68. | <b>B</b> | 69. | <b>C</b> | 70. | <b>B</b> |
| 71. | <b>16</b> | 72. | <b>7</b> | 73. | <b>48</b> | 74. | <b>19</b> | 75. | <b>18</b> |     |          |     |          |     |          |     |          |     |          |

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