

JEE Main 2026 April 4 Shift 1 Question Paper PDF with Answer Key

Find JEE Main 2026 April 4 Shift 1 Questions and Answers in the following table.

Question	JEE Main 2026 April 4 Shift 1 Answer Key (Unofficial)
1. Let $A = \{1, 2, 3, 4, 5\}$ and $B = \{a, b, c\}$. Then the number of functions which are not onto are	93
2. Radius of a soap bubble is increased from 1 cm to 2 cm. Work done in process is (S is surface tension)	$2.4 \pi S \times 10^{-3} \text{J}$
3. A rod is placed along principal axis as shown. Find length of image	5 cm
4. If z be a complex number such that $ z + 2 = z - 2 $ and $\arg(z - 3/z + i) = \pi/4$ then the value of z is	$3i$
5. Nuclei A and B form a nucleus C. BE/N for A, B and C are 3 MeV 7 MeV and 6 MeV. Then energy produced in $2A_3 + B_4 \rightarrow C_{10}$	14 MeV
6. Total number of lone pairs and o bond pairs formed by central atom (Xe) in XeO_4^{4-}	6
7. Let A is a matrix of order 3 such that $ A = -4$. Then, the value of $ \text{adj}(\text{adj}(2\text{adj}(A))^{-1}) $ is	$1/2^{28}$
8. The number of ways 4 boys and 3 girls are to be arranged in a row so that all 3 girls are not together, is equal to	4320
9. Find coefficient of friction if time taken by block in rough surface is 50% more than time taken by smooth surface. The distance slide by the mass is same in both the cases.	$\mu = 5/9$

<p>10. Statement I: BP order is $\text{HI} < \text{HBr} < \text{HCl} < \text{HF}$. Statement II: MP order is $\text{HI} < \text{HF} < \text{HCl} < \text{HBr}$.</p>	<p>Statement I and Statement II are incorrect</p>										
<p>11. Given below are two statements: Statement I: Maltose is a non-reducing sugar Statement II: Lactose is a reducing sugar</p>	<p>Statement I is Incorrect but statement II is Correct</p>										
<p>12. $y = \tan^{-1} \left(\frac{3 \cos x - 4 \sin x}{4 \cos x + 3 \sin x} \right) + \tan^{-1} \left(\frac{x}{1 + \sqrt{1+x^2}} \right)$, then find $\frac{dy}{dx}$ at $x = \frac{\sqrt{3}}{2}$</p>	<p>-5/7</p>										
<p>13. The domain of the function $\cos^{-1} (4\pi + 2[x]/3)$, where $[-]$ is greatest integer function, is</p>	<p>$[-1/4, 3/4]$</p>										
<p>14. Inputs of A and B are given. Find output result Y of the circuit</p>	<p>A + B-</p>										
<p>15. If the wavelength of first line of Balmer series and of Brackett series of H are respectively λ_1 and λ_2 and a respectively, then value of λ_1, λ_2 is</p>	<p>0.16</p>										
<p>16. What will be the pH at 25°C of solution obtained by mixing of 100 ml, 0.5 M NH OH solution and 0.01 M, 25 mL. NH_4Cl solution? (pK_b of $\text{NH}_3 = 4.74$)</p>	<p>11.56</p>										
<p>17. Let S is the sum of first n terms of an A.P and a is the nth term of A.P. If first term of the given A.P is and $S_{30} = 30a$. Then, the common difference of the given A.P is</p>	<p>5/87</p>										
<p>18. The value of $A = \frac{\sin 3^\circ}{\cos 9^\circ} + \frac{\sin 9^\circ}{\cos 27^\circ} + \frac{\sin 27^\circ}{\cos 81^\circ}$ and $B = \tan 81^\circ - \tan 3^\circ$. The value of $\frac{A}{B}$ is equal to</p>	<p>1/2</p>										
<p>19. For the circuit given below, find the V_{AB} and I_{AB}</p>	<p>24 V, 4A</p>										
<p>20. Match the following</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>Species</td> <td>M</td> </tr> <tr> <td>Mn^{2+} (P)</td> <td>$\sqrt{24}$</td> </tr> <tr> <td>Co^{2+} (Q)</td> <td>$\sqrt{35}$</td> </tr> <tr> <td>Cu^{2+} (R)</td> <td>$\sqrt{15}$</td> </tr> <tr> <td>Cr^{2+} (S)</td> <td>$\sqrt{3}$</td> </tr> </table>	Species	M	Mn^{2+} (P)	$\sqrt{24}$	Co^{2+} (Q)	$\sqrt{35}$	Cu^{2+} (R)	$\sqrt{15}$	Cr^{2+} (S)	$\sqrt{3}$	<p>(i) → (Q), (ii) → (R), (iii) → (S), (iv) → (P)</p>
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<p>21. Match the following:</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">List-1 (Amino Acid)</td> <td style="text-align: center;">List-II (Single letter code)</td> </tr> <tr> <td>(I) Arginine (P)</td> <td>D</td> </tr> <tr> <td>(II) Lysine (Q)</td> <td>K</td> </tr> <tr> <td>(III) Glutamic acid (R)</td> <td>E</td> </tr> <tr> <td>(IV) Aspartic acid (S)</td> <td>R</td> </tr> </table> <p>Choose the correct option</p>	List-1 (Amino Acid)	List-II (Single letter code)	(I) Arginine (P)	D	(II) Lysine (Q)	K	(III) Glutamic acid (R)	E	(IV) Aspartic acid (S)	R	<p>(I) S (II) Q (III) R (IV) P</p>
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(II) Lysine (Q)	K										
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(IV) Aspartic acid (S)	R										
<p>22. If the value of $\int (\sin x) + x \sin x dx = B(1-3\cos\alpha) + \beta \sin\beta$ then β is equal to</p>	<p>2</p>										
<p>23. There are two samples of gases : Sample A → Number of moles is 2 and volume is $3V_0$ Sample B → Number of moles is 2 and volume is V_0 If relation between pressure and volume for both samples is $P = P_0 / (1 + (V/V_0)^2)$ Then find difference between temperature of sample B and sample A</p>	<p>$P_0 V_0 / 10R$</p>										
<p>24. A spiral coil having total 200 turns, inner radius 3 cm and outer radius 6 cm has 20 mA current through it Find its magnetic moment.</p>	<p>$84\pi \times 10^{-4} \text{ Am}^2$</p>										
<p>25. If 'n' is the number of lone pairs of electrons in the equatorial position of the most stable structure of ClF_3, which of the following ions also have 'n' unpaired* electrons?</p> <p style="margin-left: 40px;"> V^{3+} Tl^{3+} Cu^{2+} Ni^{2+} Tl^{2+} </p>	<p>A, D and E only</p>										