



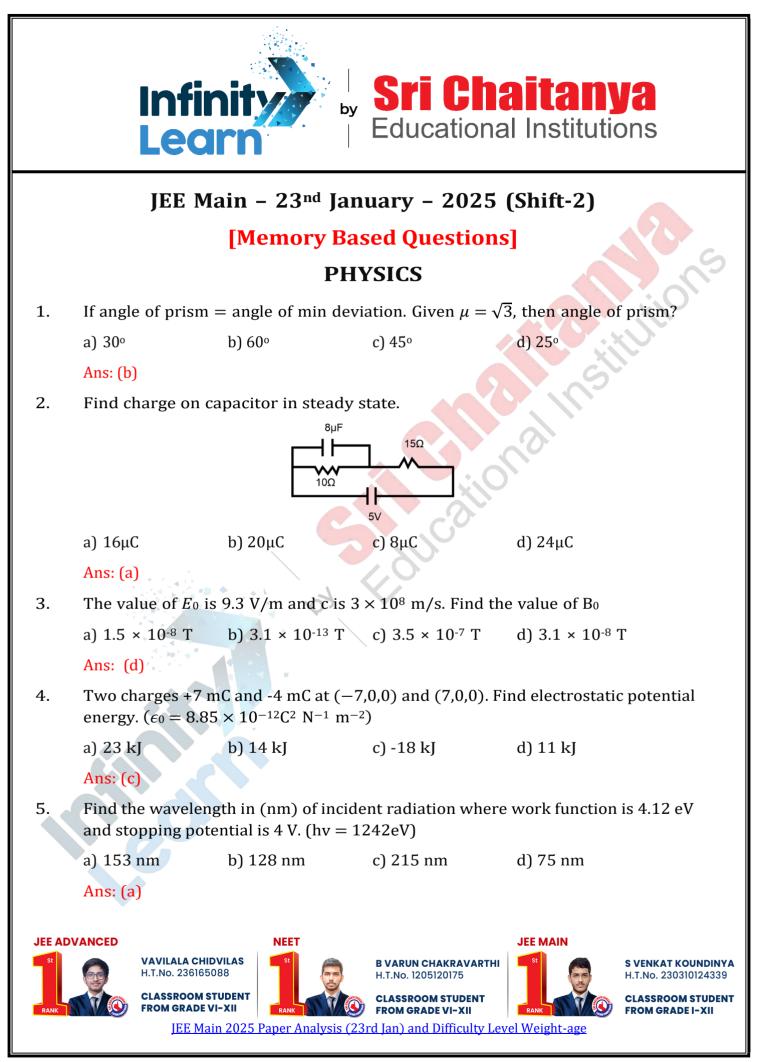
2025 JEE 23[™] Shift -2 Questions HISTORY CREATED

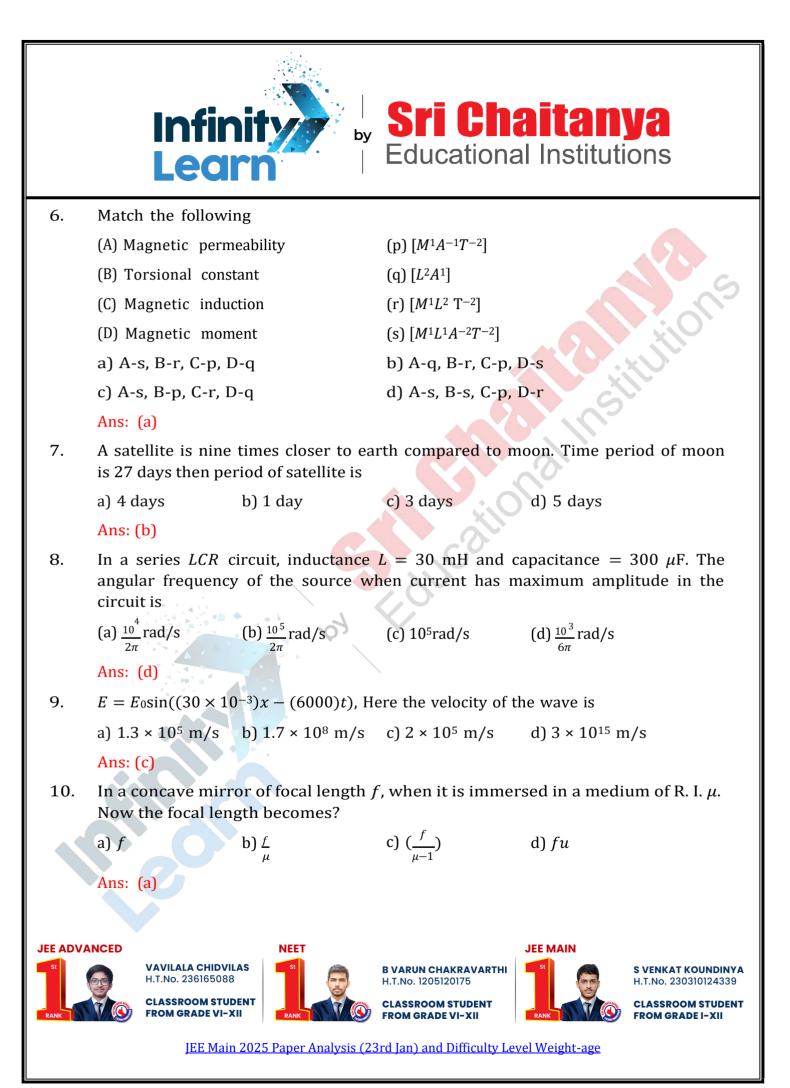
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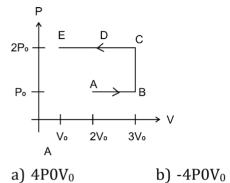
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11. Find the work done in the cycle ABCDE



c) $-3P0V_0$

d) $3P0V_0$

Ans: (c)

12. There is a horizontal pipe of variable cross-section having fluid of density ρ flowing through it. At cross section A&B the velocities are $V_A\&V_B$ and pressure *P_A* & *P_B*. Find the correct relation between velocities.

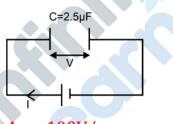
a)
$$V_A - V_B = \frac{\rho}{2(P_B^2 - P_A^2)}$$

c) $V_A^2 - V_B^2 = \frac{2(P_B - P_A)}{\rho}$
Ans: (c)

The energy in a system varies with position and time as $E(x, t) = x^3 e^{-\beta t}$, where 13. $\beta = 0.3 \text{ sec}^{-1}$. Given that the *P*% error in x = 1.2% and that the % error in t = 1.6%, find the maximum % error in *E* at t = 5 sec.

Ans: 6%

Find the rate of change of voltage $\frac{dv}{dt}$ given I = 0.25 mA. 14.

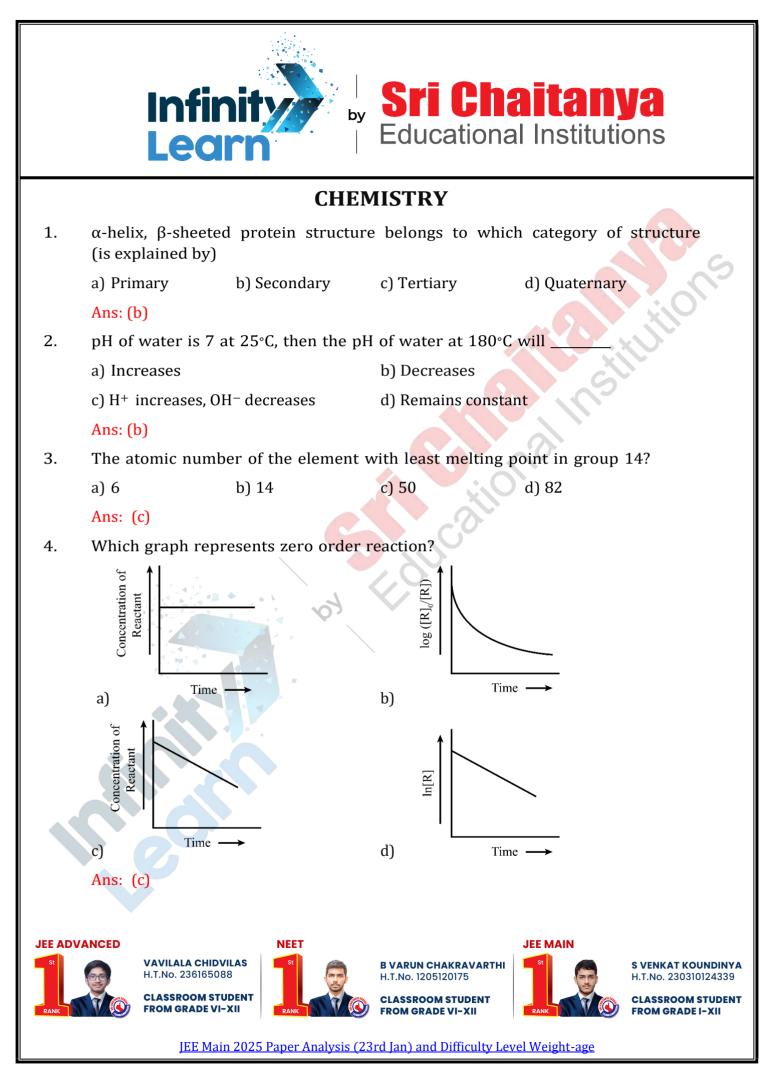


Ans: 100V/sec.

15. A particle of mass *m* is projected at angle 60° with horizontal. If initial kinetic energy is KE_0 and kinetic energy at maximum height is $\frac{KE_0}{KE_0}$, find value of x.

Ans: 4









5. 81g of Al reacts with 128g of O₂. Calculate the amount of Al₂O₃ is produced? a) 164 b) 153 c) 175 d) 181 titutions

Ans: (b)

Match the following List I with List II. 6.

List-I (Alloys)		List-II (Metals)	
А.	Bronze	(i)	Fe, Cr, and Ni
В	Stainless steel	(ii)	Cu and Sn
С	UK Gold Coin	(iii)	Cu and Zn
D	Brass	(iv)	Ag, Cu, Zn and Ni

a) A-(ii), B-(i), C-(iv), D-(iii)

b) A-(iii), B-(iv), C-(i), D-(ii)

c) A-(iv), B-(iii), C-(ii), D-(i)

d) A-(i), B-(ii), C-(iii), D-(iv)

Ans: (a)

By using relation $\Delta G = \Delta H - T\Delta S$, which of the following is incorrect for 7. spontaneous reaction at a given temperature

a) $\Delta H > 0, \Delta S > 0$ b) $\Delta H > 0, \Delta S < 0$ c) $\Delta H < 0, \Delta S > 0$ d) $\Delta H < 0, \Delta S < 0$

Ans: (b)

- 8. **Statement-I:** For a particular shell, maximum number of orbital is n². **Statement-II** : For d-subshell, number of orientation lies between -l to +lincluding zero.
 - a) S-I and S-II both are correct
 - b) S-I and S-II both are incorrect
 - c) S-I is correct, S-II is incorrect
 - d) S-I is incorrect, S-II is correct

Ans: (a)

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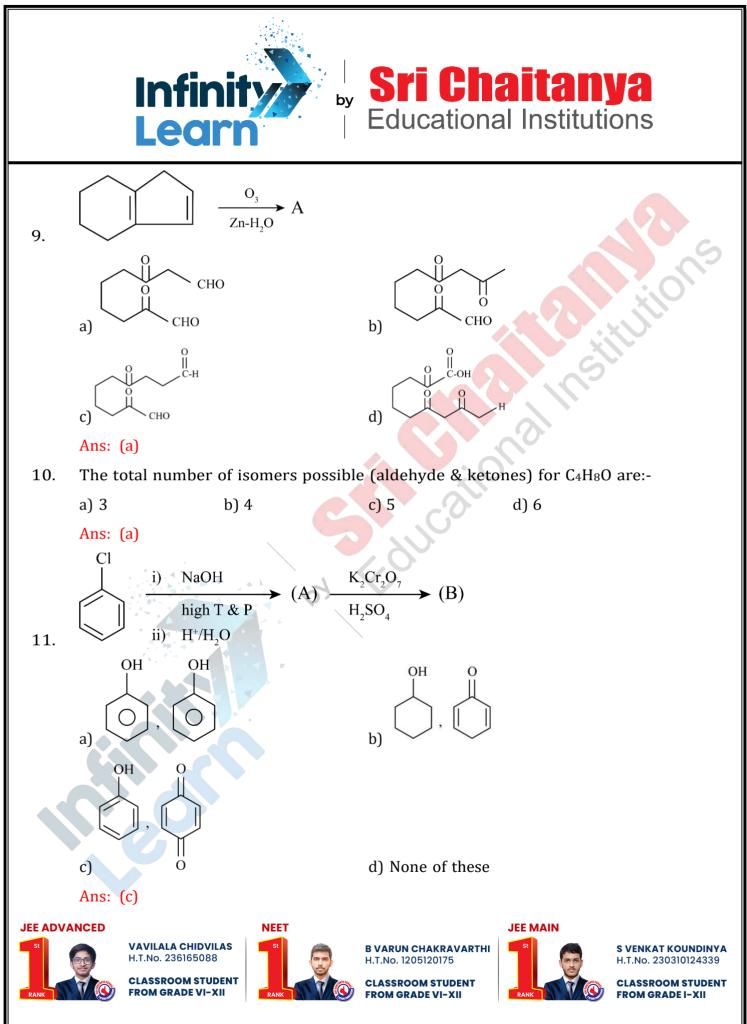
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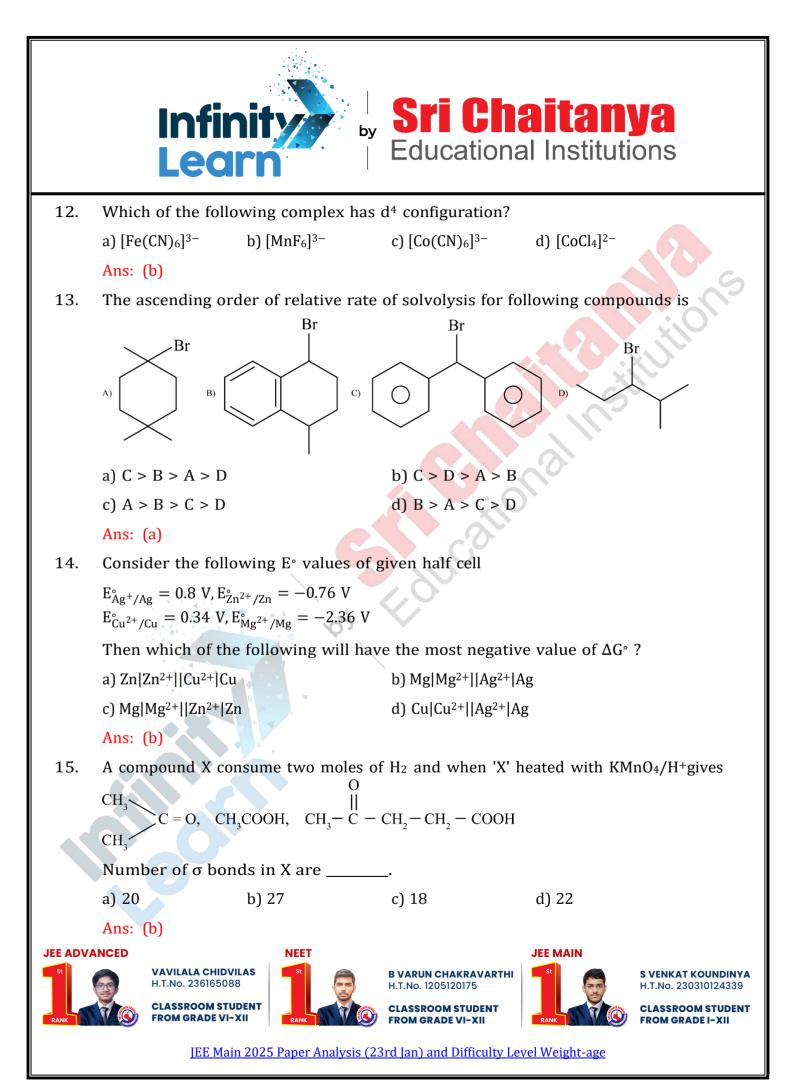
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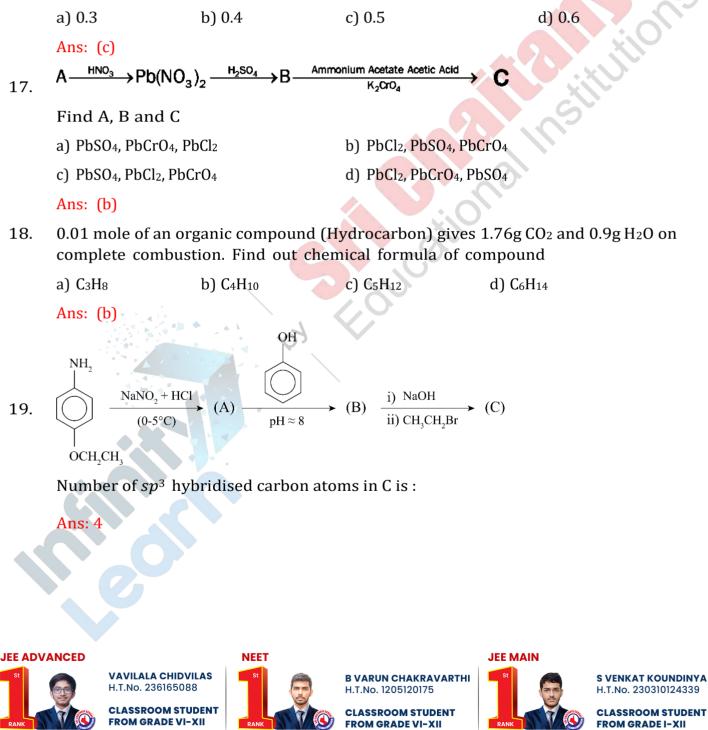
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16. When a non-volatile solute (A) is added to a volatile solvent, the vapour pressure of solvent decreases by 10 mm Hg. Mole fraction of solute is 0.2. If second solute (B) is added to the same solution and vapour pressure of solution decreases by 20 mm Hg, calculate mole fraction of second solute in the final solution.

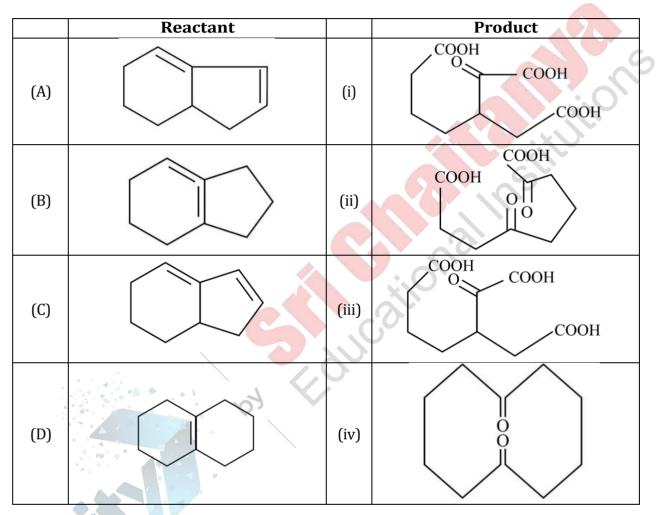


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20. Match the following.



Give correct product of oxidative ozonolysis (O_3/H_2O)

a) A-ii, B-i, C-iii, D-iv

b) A-i, B-ii, C-iii, D-iv

c) A-i, B-ii, C-iv, D-iii

d) A-i, B-iv, C-ii, D-iii

Ans: (b)

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MATHEMATICS

1.	If the square of the shortest distance between the lines $x = \frac{y-1}{1} = \frac{y-1}{2} = \frac{z+3}{-3}$ and					
	$\frac{x+1}{2} = \frac{y+3}{4} = \frac{z+5}{-5} \text{ is } \frac{m}{n}, \text{ where } m, n \text{ are coprime numbers then } m+n \text{ is equal to?}$					
	a) 6	b) 9	c) 14	d) 21		
	Ans: (b)					
2.	$A = (a_{ij}) \text{ Given } A$	$\begin{bmatrix} 0 & 0 & 4 & 0 \\ [1] = [0], A [1] = [1] \\ 2 & 2 \end{bmatrix}$], $A[1] = [0]$ Find (a23)		
	a) -1	0 1 3 0 b)-3	2 0 c) -5	d) -7		
	Ans: (a)	5, 5				
3.		equations x + y -	z = 6, x + 2y + 5z =	$= 9, x + 5y + \lambda z = \mu$ has no		
	a) 15	b) 17	c) 11	d) 13		
	Ans: (b)					
4.	Let $\int x^3 \sin x dx = g(x) + c$, where <i>c</i> is the constant of integration of					
	$8\left(g\left(\frac{\pi}{2}\right)+g'\left(\frac{\pi}{2}\right)\right)=\alpha\pi^{3}+\beta\pi^{2}+\gamma,\alpha,\beta,\gamma\in z,\text{ then }\alpha+\beta-\gamma=$					
	a) 48	b) 47	c) 55	d) 62		
	Ans: (c)					
5.	α , β are the roots of $x^2 - px + q = 0$, are 10 ^{th,} 11 th term of <i>A</i> . <i>P</i> of common difference 3/2, Sum of 11 terms = 88 then find, $q - 2p =$					
	a) 150	b) 123	c) 158	d) 167		
	Ans: (c)					
6. Consider the terms 8, 21, 34, 47,320. The variance of the given data set is						
	a) 8788	b) 8614	c) 720	d) 9402		
	Ans: (a)					
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Probability of selecting 2 unit squares randomly from given 4 × 4 grid having no two sides common is

