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JEE (MAIN) 2026

MEMORY BASED QUESTIONS & TEXT SOLUTION

SHIFT-2

DATE & DAY: 23 January 2026 & Friday

PAPER-1

Duration: 3 Hrs.

Time: 03:00 PM – 06:00 PM

SUBJECT: CHEMISTRY

Selections in JEE (Advanced)/
IIT-JEE Since 2002

52979

Classroom: 35901 | Distance: 17078

Selections in JEE (Main)/
AIEEE Since 2009

262693

Classroom: 194471 | Distance: 68222

Selections in NEET (UG)/
AIPMT/AIIMS Since 2012

22733

Classroom: 15409 | Distance: 7324

Admission Open for 2026-27

Target: JEE (Advanced) | JEE (Main) | NEET (UG) | PCCP (Class V to X)

100% Scholarship on the basis of Class 10th, 12th
& JEE (Main) 2026 %ile / AIR

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PART : CHEMISTRY

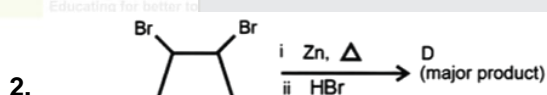
Atomic masses : [H = 1, D = 2, Li = 7, C = 12, N = 14, O = 16, F = 19, Na = 23, Mg = 24, Al = 27, Si = 28, P = 31, S = 32, Cl = 35.5, K = 39, Ca = 40, Cr = 52, Mn = 55, Fe = 56, Cu = 63.5, Zn = 65, As = 75, Br = 80, Ag = 108, I = 127, Ba = 137, Hg = 200, Pb = 207]

1. **Statement I :** Size of O^{2-} is smaller than F^- .

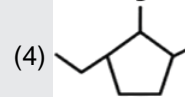
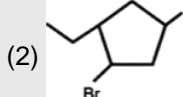
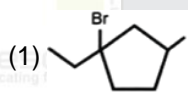
Statement II : Electronegativity of F is more than that of oxygen. In the light of above statements, choose the correct option.

- (1) Both Statement -I and Statement -II are correct
- (2) Both Statement -I and Statement -II are incorrect
- (3) Statement -I is correct and Statement -II are incorrect
- (4) Statement -I is incorrect and Statement -II are correct

Ans. (4)



Identify (D)



Ans. (1)

3. For XeO_2F_2 , select the correct statement(s).

- (A) It shows see-saw shape.
- (B) Number of lone pair(s) of e^- on Xe is 1.
- (C) $\angle FXeF = 180^\circ$ (approx.)
- (D) It has tetrahedral shape.

- (1) (A), (C), (D) Only
- (2) (A), (B) only
- (3) (A), (B), (C) only
- (4) (B), (C), (D) only

Ans. (3)

4. In estimation of chlorine by Carius method, 0.245 g organic compound gave 0.5453 g AgCl. Find percentage of chlorine in the organic compound

Ans. (54)

5. How many of the following complex(es) have unpaired electrons $[Ni(CO)_4]$, $[NiCl_4]^{2-}$, $[PtCl_4]^{2-}$, $[Pt(CN)_4]^{2-}$

Ans. (1)

6. An ideal solution is formed by mixing 3 mole of A and 1 mole of B and the vapour pressure of solution is found to be 500 mm Hg. After further addition of 1 mole A, pressure of solution becomes 520 mm Hg. Find P_A° .

Ans. (600)

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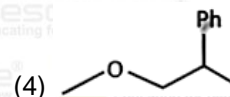
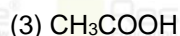
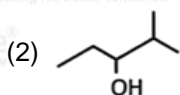
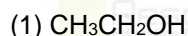
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7. Which of the following molecule gives positive iodoform test



Ans. (1)

8. The oxidation state of chromium in the final product in the reaction between KI and acidified $\text{K}_2\text{Cr}_2\text{O}_7$ solution is

(1) +3

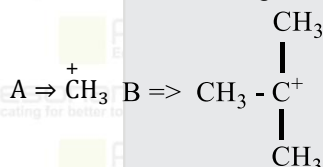
(2) +2

(3) +4

(4) +6

Ans. (1)

9. Consider the following intermediates.



(1) B is more stable than A as it has 9 α hydrogen

(2) A is more stable than B as it has 3 α hydrogen

(3) B is more stable than A due to resonance

(4) A is more stable due to inductive effect

Ans. (1)

10. DNA is optically active due to the presence of

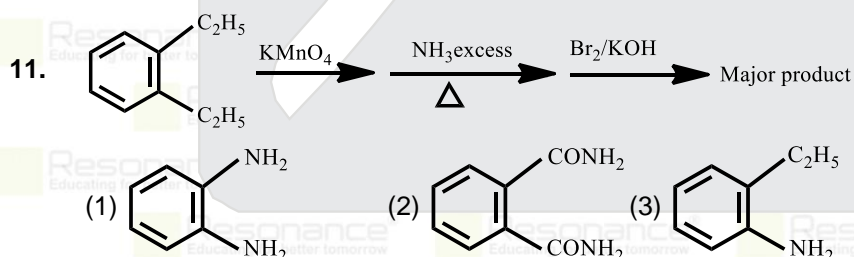
(1) Purine nitrogenous base

(2) Phosphate molecule

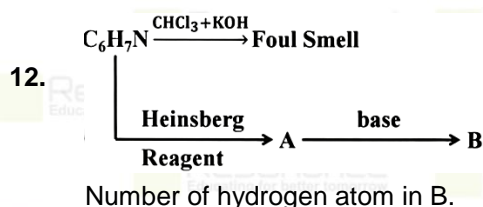
(3) D-pentose sugar

(4) L-pentose sugar

Ans. (3)



Ans. (1)



Ans. (10)

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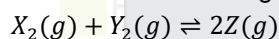
13. 250 cc of $x \times 10^{-3} \text{ M}$ acidified $\text{K}_2\text{Cr}_2\text{O}_7$ solution neutralises 750 cc of 0.6 M Mohr's salt. Value of x is
(1) 300 (2) 600 (3) 400 (4) 700

Ans. (1)

14. Two metals with work function in ratio 1:2, are exposed with photons of energy 6 eV. If $KE_A:KE_B$ is 3:1, then ϕ_A and ϕ_B value (in eV) are
(1) 2,4 (2) 1.4,2.8 (3) 2.3,3.6 (4) 3.2,6.4

Ans. (1)

15. Consider the following reaction



3 mol of X_2 , 3 mol of Y_2 and 9 mol of Z are present at equilibrium and the volume of container is 1 L. If 10 mol of Z is added at equilibrium. Calculate the number of moles of Z at new equilibrium

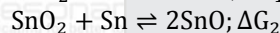
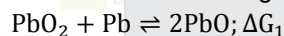
Ans. (15)

16. Electronegativity difference between a group 15 element & P is less than electronegativity difference between another group 15 element & P. Those group 15 elements respectively are-

(1) Bi, N (2) Sb, As (3) Sb, Bi (4) N, As

Ans. (1)

17. Consider the following reactions

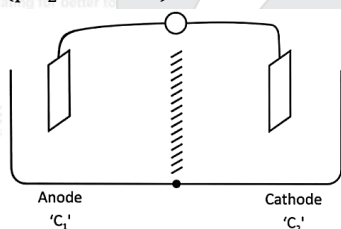


Select the correct option?

(1) $\Delta G_1 > 0, \Delta G_2 > 0$ (2) $\Delta G_1 < 0, \Delta G_2 > 0$ (3) $\Delta G_1 < 0, \Delta G_2 < 0$ (4) $\Delta G_1 > 0, \Delta G_2 < 0$

Ans. (2)

18. Consider a galvanic cell, made up of two H_2 -electrodes. Both compartments contain the same metal electrodes. If concentrations of H^+ in anode and cathode are C_1 and C_2 respectively, then $E_{\text{cell}} > 0$ when, ($p\text{H}_2 = 1 \text{ atm}$)



(1) $C_2 < C_1$ (2) $C_2 = C_1$ (3) $C_2 > C_1$ (4) $C_2 = 0.5C_1$

Ans. (3)

19. Which of the following are isobars?

(1) ${}^{232}_{92}\text{U}$ & ${}^{238}_{92}\text{U}$ (2) ${}^3_1\text{H}$ & ${}^2_1\text{H}$ (3) ${}^3_1\text{H}$ & ${}^3_2\text{He}$ (4) ${}^{14}_7\text{N}$ & ${}^{15}_7\text{N}$

Ans. (3)

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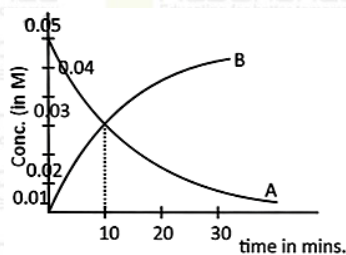
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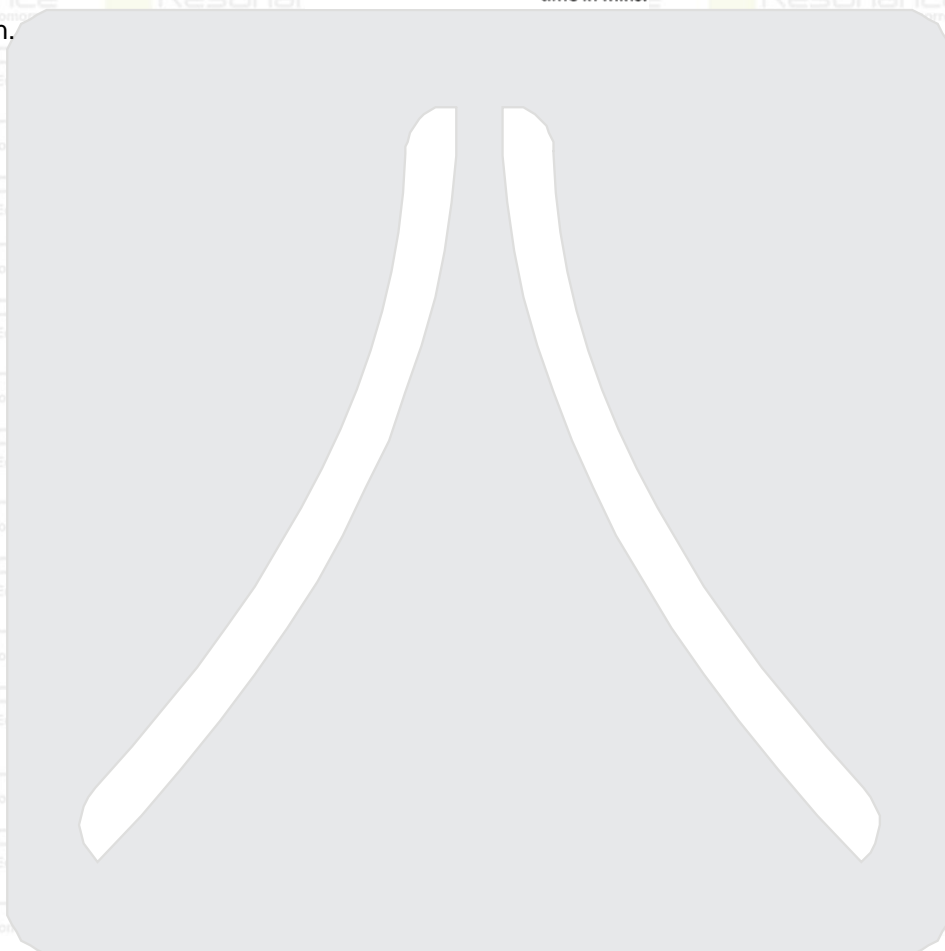
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20. For a reaction $A \rightarrow nB$, a concentration vs time curve is,



find 10n.

Ans. (15)



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