



PAPER SOLUTION



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#Q. Two solutes A and B of 0.3 g and 0.9 g respectively (molar mass of A and B are 30 g/mol and 90 g/mol respectively. Calculate of osmotic pressure at 300 K (in atm) in 100ml solution.(A and B are non-electrolyte).

Ans. (5)

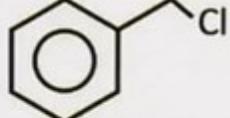
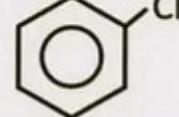


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#Q. Match List-I with List-II.

Select the correct option.

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

	List-I		List-II
A.	Vinyl halide	(I)	
B.	Allyl halide	(II)	
C.	Benzyl halide	(III)	
D.	Aryl halide	(IV)	

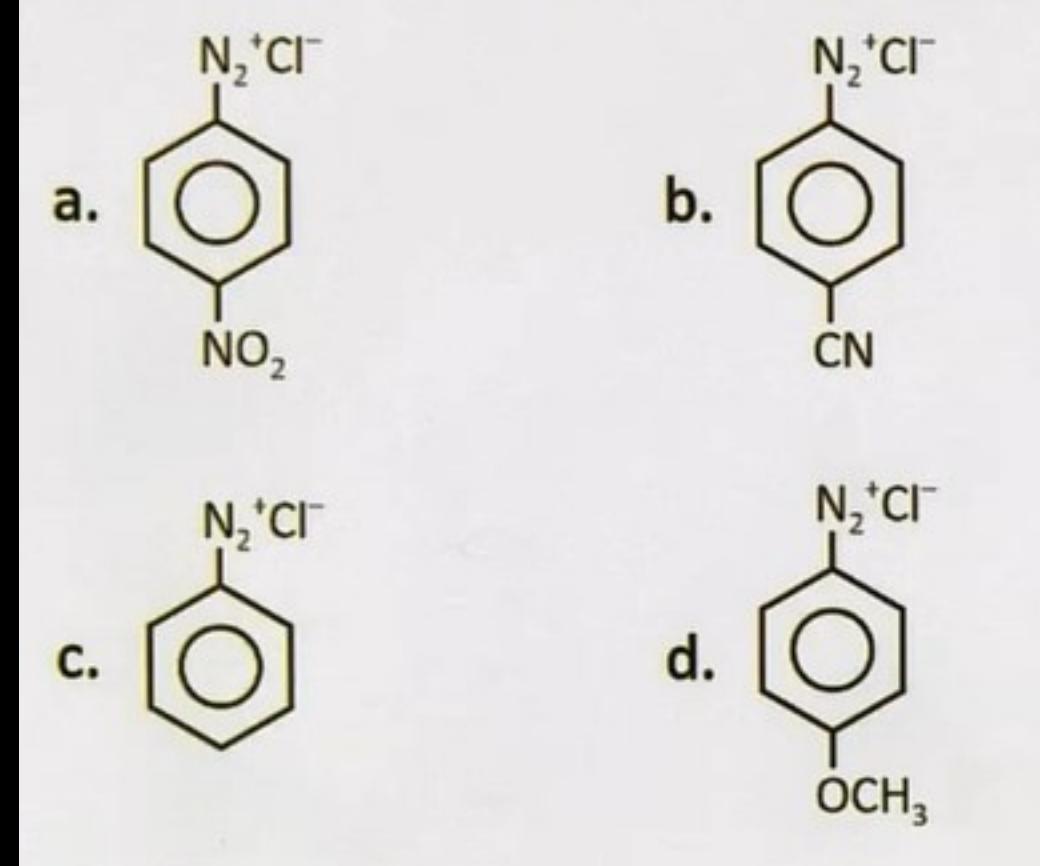
Ans. (B)



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#Q. The correct order of stability of following diazonium ions is:

- A** a < b < c < d
- B** a < b < d < c
- C** c < d < b < a
- D** d < c < b < a

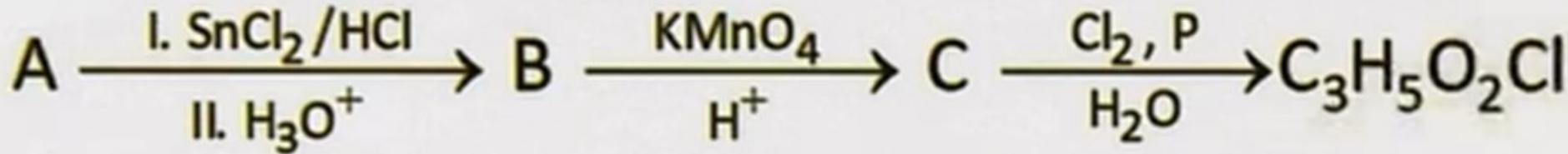


Ans. (A)



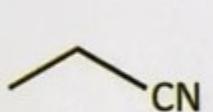
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#Q.

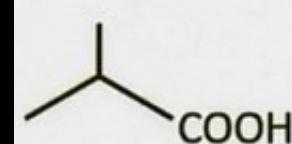


Final product has one chiral centre. Structure of A is:

A



B



C



D



Ans. (A)



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#Q. Which of following compound contains 3 unpaired electrons?

- A** V_2O_5
- B** $[TiF_6]^{3-}$
- C** $[CoF_6]^{4-}$
- D** $[Fe(CN)_6]^{3-}$

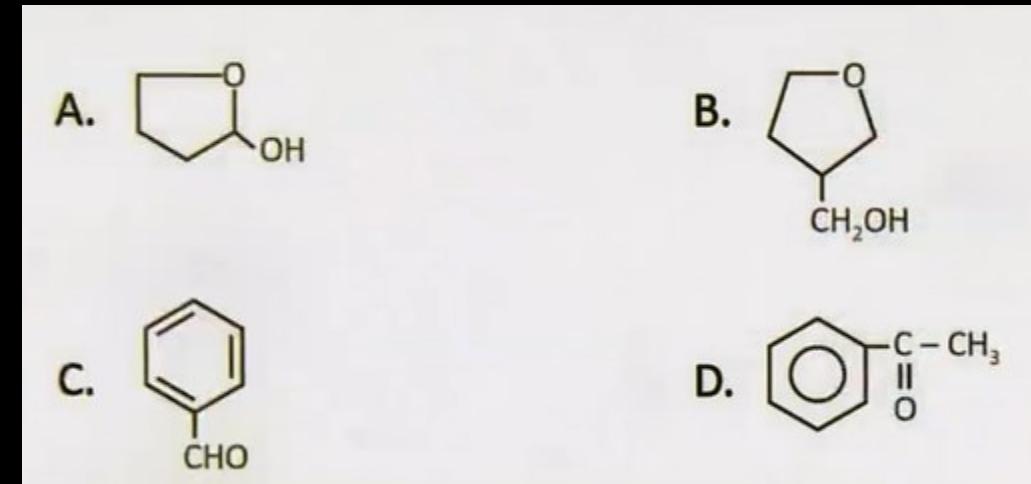
Ans. (C)



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#Q. Which of the following compounds with give positive Tollen's reagent test?

- A** A, B and C only
- B** A and C only
- C** A, C and D only
- D** B, C and D only



Ans. (B)



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#Q. $K_2Cr_2O_7 + I^- + H^+ \rightarrow I_2$ (x = number of moles of e^- exchanged per mole I_2)
 $K_2Cr_2O_7 + S^{2-} \rightarrow S$ (y = number of moles of e^- exchanged per mole S)
x + y is:

- A** 12
- B** 9
- C** 4
- D** 6

Ans. (C)



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#Q. *Match the column:*

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

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

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

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

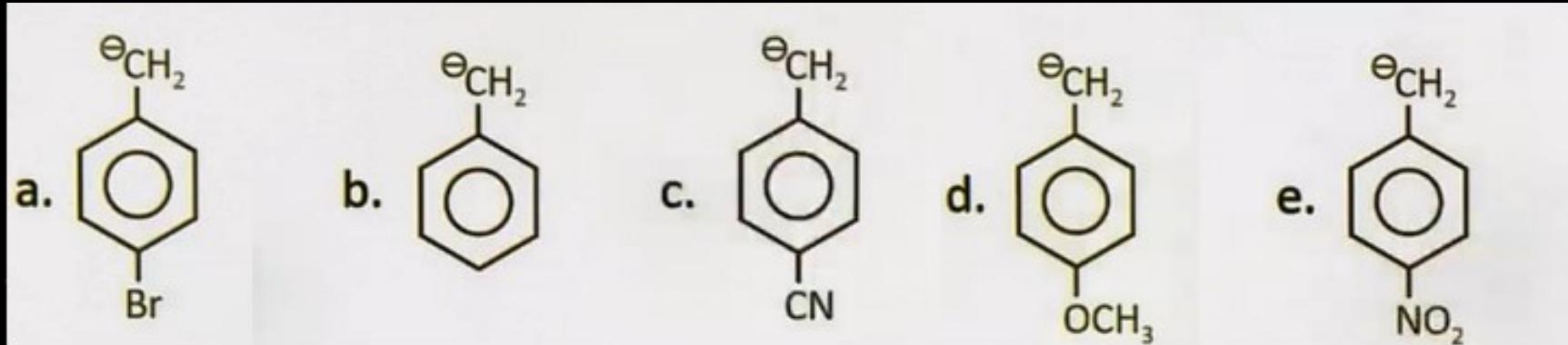
	Column-I		Column-II
(A)	IF_3	(I)	sp^3d^3 , Pentagonal bipyramidal
(B)	IF_5	(II)	sp^3d , T-shaped
(C)	IF_7	(III)	sp^3 , Tetrahedral
(D)	ClO_4^-	(IV)	sp^3d^2 , Square pyramidal

Ans. (C)



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#Q. The correct order of stability of following species is:



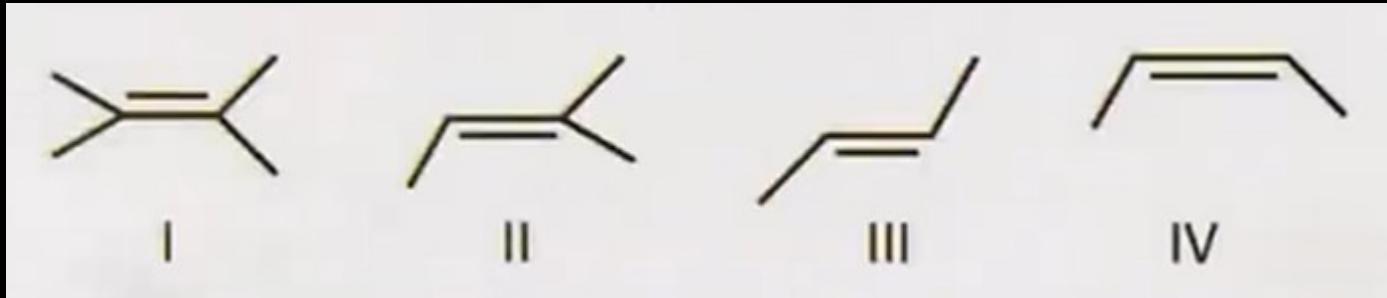
- A** $e > c > a > b > d$
- B** $d > c > b > a > e$
- C** $e > a > c > b > d$
- D** $e > a > b > c > d$

Ans. (A)



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#Q. Consider the following alkene:



The correct stability order of alkenes is:

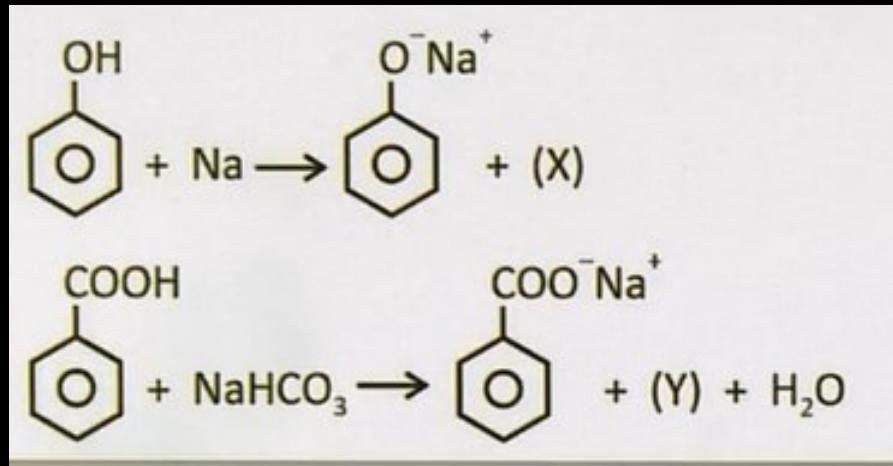
- A** II > I > III > IV
- B** I > II > IV > III
- C** I > II > III > IV
- D** III > I > II > IV

Ans. (C)



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#Q. What is the sum of molar mass of X and Y formed in the given reactions?



- A** 46
- B** 44
- C** 2
- D** 42

Ans. (A)

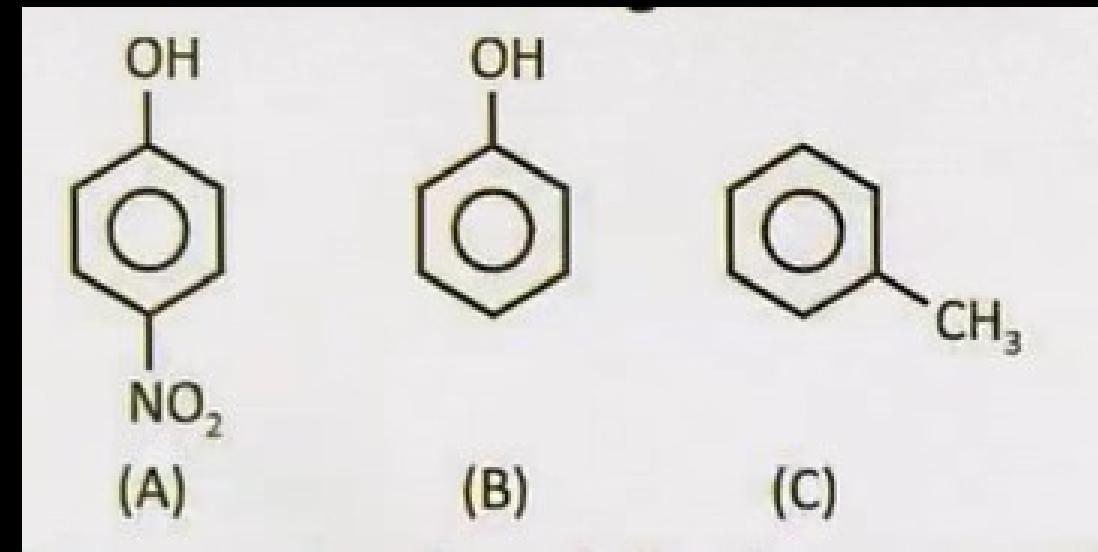


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#Q. Consider the following molecules.

The correct order of dipole moment is:

- A** A > B > C
- B** A > C > B
- C** B > A > C
- D** C > A > B



Ans. (A)



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#Q. Given below are two statements.

Statement I: Atomic radius is always more than ionic radius.

Statement II: The correct order of metallic character is K > Mg > Al > B

In the light of above statements, choose the correct option.

- 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**

Ans. (D)



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#Q. Match the following.

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

	Column-I		Column-II
A.	Free expansion	(I)	$W = -P_{ex}\Delta V$
B.	Reversible isothermal	(II)	$W = nC_v dT$
C.	Irreversible isothermal	(III)	$W = 0$
D.	Adiabatic reversible	(IV)	$W = -nRT \ln \frac{V_f}{V_i}$

Ans. (B)



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#Q. Non-volatile solute A of mass 0.3 g (Molecular mass = 60), and non-volatile solute B of mass 0.9 g (Molecular mass = 180) in 100 mL H_2O at 27°C. If $K_b = 0.52 \text{ K}\text{-Kg}\text{-mol}^{-1}$ then elevation of boiling point is:

- A** 0.52 K
- B** 0.052 K
- C** 0.026 K
- D** 0.083 K

Ans. (B)



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#Q. A solution contains two group-IV cations, X^{2+} and Y^{2+} , each at an initial concentration of 0.1 M. H_2S gas is passed through the solution to form a saturated solution. Given

$$K_{sp} \text{ of } YS = 2 \times 10^{-27} \text{ M}^2$$

$$K_{sp} \text{ of } XS = 1 \times 10^{-27} \text{ M}^2$$

What is the minimum concentration of sulphide in $[S^{2-}]$ required to begin precipitation of YS ?

- A** 2×10^{-26}
- B** 10^{-26}
- C** 3.2×10^{-14}
- D** 0.1

Ans. (A)



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#Q. What is the hybridisation and spin only magnetic moment of Complex $[\text{Co}(\text{CO})_6]\text{Cl}_3$?

- A** d^2sp^3 , 0 BM
- B** sp^3d^2 , 4.90 BM
- C** d^2sp^3 , 4.90 BM
- D** sp^3d^2 , 0 BM

Ans. (A)



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#Q. Minimum energy transition of Balmer series (energy line having minimum energy) of H-atom has energy of L eV. If the value of minimum energy of Lyman series (energy line having minimum energy) of H-atom in terms of L is y , then the value of $10y$ is _____.

Ans. (54)



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#Q. Find % of 'N' in 0.5 g organic compound which gives 34 mL N_2 (g) at 715 mm Hg pressure and 300 K Aq. tension = 15 mm Hg

(Report to nearest Integer) $R = 0.0821 \frac{\text{Lit- atm}}{\text{K- mol}}$

Ans. (7)



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#Q. Find the value of $\log\left(\frac{K_{catalyst}}{K_{uncatalyst}}\right)$ at 300 K. if the change in activation energy (ΔE_a) is -10 kJ/mol.
($R = 8 \text{ J K}^{-1} \text{ mol}^{-1}$) ($\ln x = 2.31 \log x$)

Ans. (2)