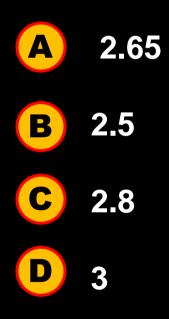




#Q. Density of 3 M NaOH is 1.25 g/ml. Molality of solutions is:





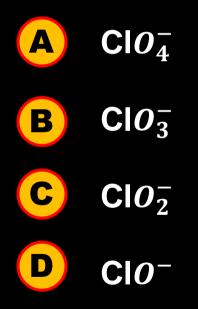
- #Q. Arrange according to CFSE.
 (i) [Co(NH₃)₄]²⁺ (ii) [Co(NH₃)₆]³⁺ (iii) [Co(NH₃)₆]²⁺ (iv) [Co(en)₃]³⁺
 - A (iv) > (ii) > (iii) > (i)
 - B (iv) > (iii) > (ii) > (i)
 - **C** (i) > (iii) > (ii) > (iv)
 - D (i) > (ii) > (iii) > (iv)

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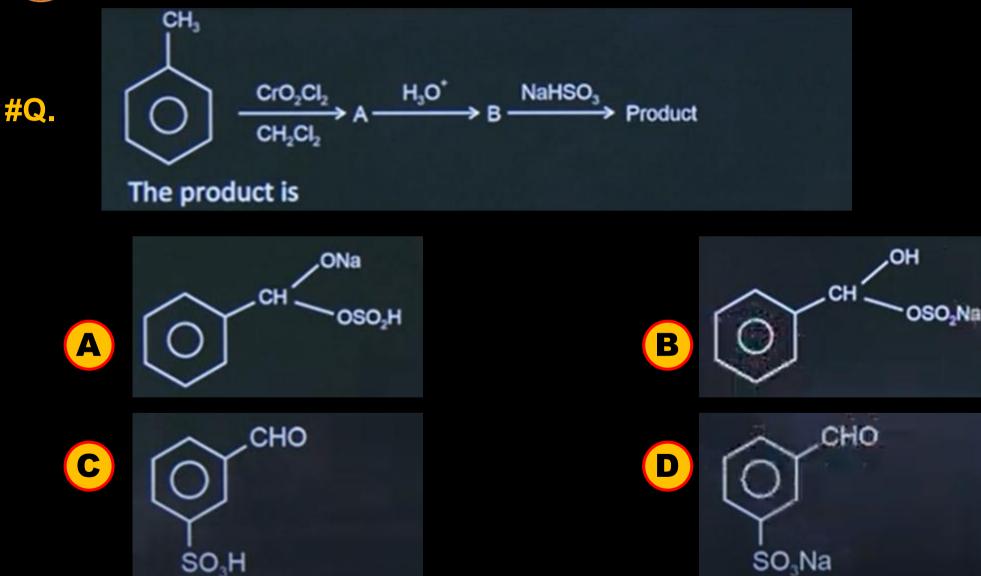
Ans. (A)



#Q. Which of the following anion will not undergoes disproportionation? (NCERT PAGE No – 244 Ex. No. – 7.5)







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Ans. (B)



#Q. What is correct order of stability of carbocation.

$$H_3CO - O - CH_2 + CO - CH_2 + CO - CH_2 + O - CH_2 +$$

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#Q. 200 mL of 0.2 M solution of NaOH is mixed with 400 mL of 0.5 M NaOH solution. Molarity of mixture is:





D

JEE MAIN 2025 D LIVE PAPER DISCUSSION

#Q. Given are two statements: Statements I: Lassaigne test is used for detection of Nitrogen, phosphorous, sulphur and Halogens. Statements : Lassaigne extract is made with magnesium metal.

A Both statements I & statements II are correct.

- **B** Both statements I & statements II are incorrect.
- **C** statements I is correct but statements II is incorrect.
 - statements I is incorrect but statements II is correct.

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#Q. Which one has two secondary Hydrogen atoms?



- **B** 2, 2, 3, 4–tetramethylheptane
- **C** 2, 2, 3, 3–tetramethyloctane
- **D** 3–ethyl–2, 4–dimethylpentane

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Ans. (D)



- #Q. Compare dipole moment of:
 (i) NF₃ (ii) CHCl₃ (iii) H₂S (iv) HBr
 - A i > ii > iii > iv
 - **B** ii > iii > i > iv
 - **C** ii > iii > iv > i
 - **D** iii > i > iv > ii

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#Q. $Ni^{2+} + 2DMG \longrightarrow Complex$

Nickel di methyl glyoxime complex has how many Hydrogen bonds?



#Q. In Ru and Nb, if in Ru, 4d electrons are x and in Nb, 4d electrons are y then find the sum of x and y.

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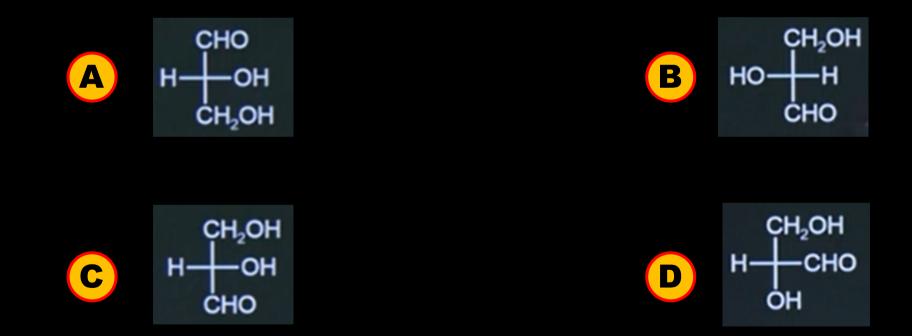
#Q. $R-Br + Mg \xrightarrow{dry ether} A \xrightarrow{H_2O} Isopentane$

How many R–Br can form isopentane?

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#Q. Correct structure of L–Glyceraldehyde is:



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#Q. Identify the extensive and intensive property?



D

Mass, volume, conductivity – Intensive property

- **B** Mass, temperature, heat, volume Extensive property
- C Mass, volume, Internal energy Extensive property
 - Density, temperature, moles, Internal energy Intensive property

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#Q. Among Group – 15 elements, what is the maximum covalency of an element having weakest E–E bond (E = element).



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Ans. (B)

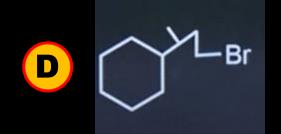


#Q. Secondary butyl cyclohexanol when reacts with Br_2 in presence of sunlight produce $ight \\ fight \\ ight \\$



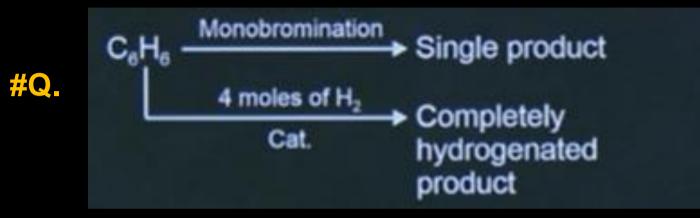






Ans. (A)





Find the number of π – electrons in C_6H_6 .

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#Q. What is the relation between K_{sp} and S of $Zr_3 (PO_4)_4$. (NCERT Equilibrium page no. – 204 part – 1)

$$\mathbf{S} = \left(\frac{K_{sp}}{6912}\right)^{\frac{1}{7}} \qquad \qquad \mathbf{B} \quad \mathbf{S} = \left(\frac{K_{sp}}{144}\right)^{\frac{1}{7}}$$

$$\mathbf{C} \quad \mathbf{S} = \frac{K_{sp}}{6912}$$

A





#Q. Consider the following statements 1 and statements 2 and choose the correct option.

- Statements I: During corrosion pure metal acts as anode and impure metal acts as cathode.
- Statements : Rate of corrosion is more in alkaline medium than in acidic medium.
- A
- Both statements I & statements II are correct.
- B
- Both statements I & statements II are incorrect.



statements I is correct but statements II is incorrect.

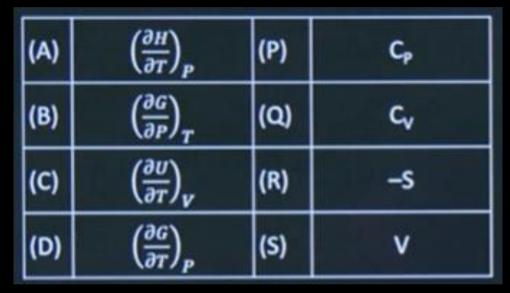


statements I is incorrect but statements II is correct.

Ans. (B)



#Q. Match the column and choose the correct option.



A
$$- P, B - S, C - Q, D - R$$

B
$$A - P, B - S, C - R, D - Q$$

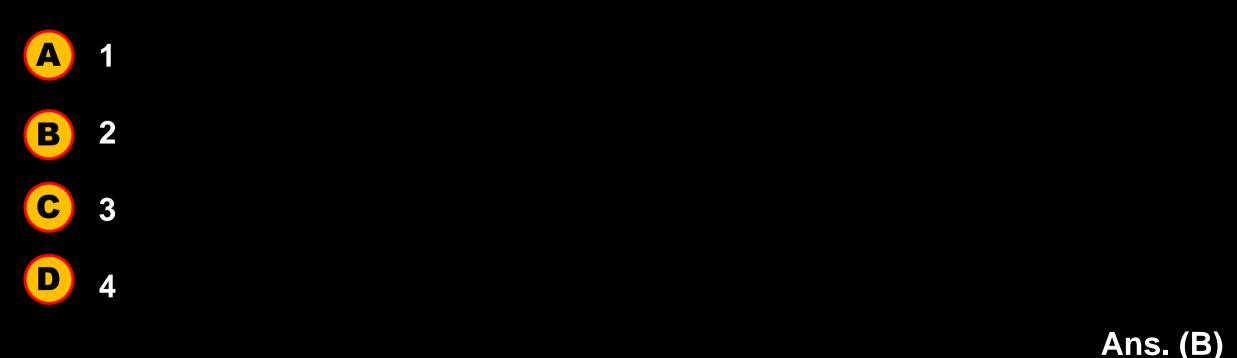
D $A - Q, B - S, C - P, D - R$

Ans. (A)

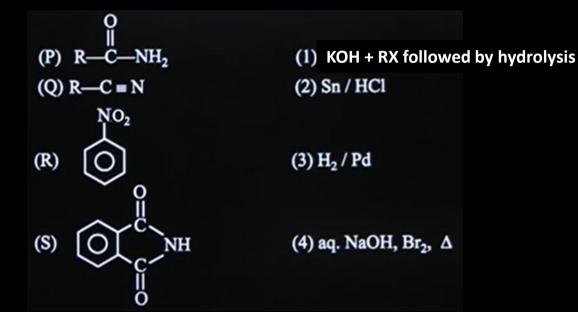


#Q. How many of the following homoleptic complexes are low spin.

 $[CoF_6]^{3-}, [Fe(CN)_5(NO)]^{2-}, [Co(NH_3)_6]^{3+}, [Co(H_2O)_6]^{3+}$



#Q. Which of the following converts into amine.



 Which of the following is correctly matched:

 A
 P - 1, Q - 3, R - 2, S - 4 B
 P - 3, Q - 1, R - 4, S - 2

 C
 P - 1, Q - 2, R - 3, S - 4 D
 P - 4, Q - 3, R - 2, S - 1

Ans. (D)



#Q. Which one gives prussian blue colour with Lassaigne's test:

