

JEE-Main-06-04-2024 (Memory Based)
[EVENING SHIFT]

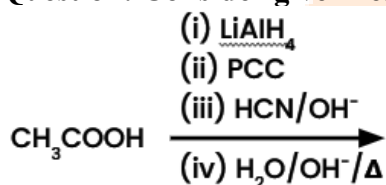
Chemistry

Question: Calculate molality of 3M NaCl solution. Density = 1.25 g/ml

Options:

Answer: (3 Molal)

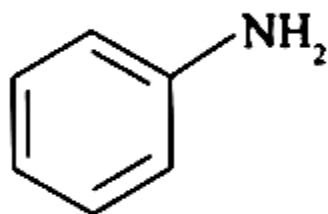
Question: Consider given reaction, identify major product P



Options:

Answer: ()

Question:



(i) $\text{NaNO}_2 + \text{HCl}$

(ii) Cu_2Cl_2

(iii) $\text{NaOH} / 623 \text{ K} / 300 \text{ atm}$

(iv) H^+

Options:

(a)

(b)

(c)

(d)

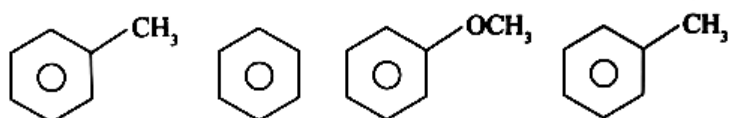
Answer: ()

Question: Identify the product formed in the following reaction:



Options:
 Answer: ()

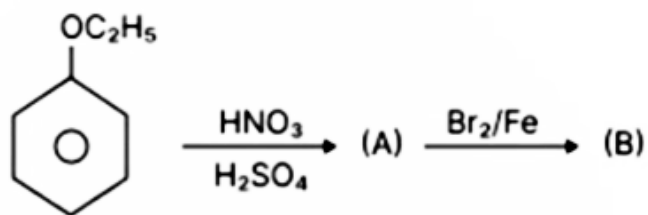
Question: Decreasing order of electrophilic Substitution



Options:
 Answer: ()



Question: Product B is :



Options:

- (a)
- (b)
- (c)
- (d)

Answer: ()

Question: For a Certain Reaction, $dH = 400 \text{ KJ/mol}$, $dS = 200 \text{ J/mol K}$. At what minimum temperature will this process be spontaneous?

Options:

Answer: ()

Question: The Shortest wavelength of Paschenn Series for H atom is?

Options:

- (a) 9/R
- (b) 16/R
- (c) 144/R
- (d) 7R/144

Answer: ()

Question: Which of the following d-block elements has maximum unpaired electron in ground state electronic configuration ?

Options:

- (a) Ti (22)
- (b) V(23)
- (c) Mn(25)
- (d) Cr(24)

Answer: ()

Question: How do you convert a Galvanic Cell into an Electrolytic Cell

Options:

- (a) By interchanging Cathode and Anode
- (b) By Applying External Voltage lesser than Cell EMF
- (c) By Applying External Voltage more than Cell EMF
- (d) By applying internal voltage

Answer: ()

Question: Select incorrect statement :

Options:

- (a) Enzymes are bio catalysts
- (b) Enzymes are nonspecific and catalyze most type of reactions
- (c) Most of the enzymes are globular proteins
- (d) Enzyme oxidase catalyses conversion of maltose to glucose.

Answer: ()

Question: spin only magnetic moment for the oxidizing agent among

VO^{2+} MnO_4^- $\text{Cr}_2\text{O}_7^{2-}$

Options:

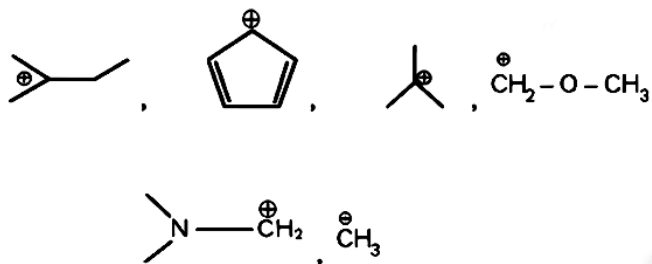
Answer: ()

Question: sp^2 :- NH_3 SO_2 , SiO_2 , C_2H_2 , CO_2 BeCl_2 , C_2H_4 , C_6H_6 , $\text{C}_2\text{H}_4\text{Cl}_2$

Options:

Answer: ()

Question: Number of Carbocation which is not Stabilized by Hyperconjugation



Options:

- (a)
- (b)
- (c)
- (d)

Answer: ()

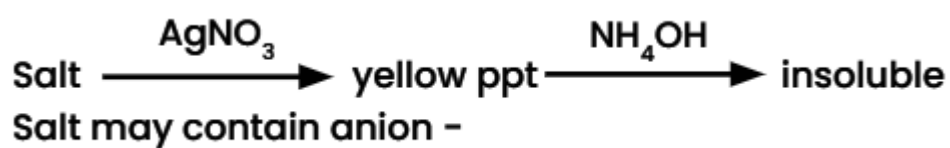
Question: IUPAC name of $[\text{PtBr}_2(\text{PMe}_3)_2]$

Options:

- (a) Dibromido(trimethylphosphine) platinum(II)
- (b) Dibromido(trimethylphosphine) platinum(IV)
- (c) Dibromido(trimethylphosphine) platinate (IV)
- (d) (trimethylphosphine) Dibromidoplatinum (IV)

Answer: ()

Question:



Options:

- (a) I^-
- (b) Br^-
- (c) Cl^-
- (d) F^-

Answer: ()