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TARGET : NEET (UG) 2024

Course : SARANSH (Youtube Live CRASH COURSE)

O-CHEMISTRY

DPP

DAILY PRACTICE PROBLEMS

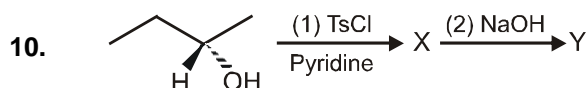
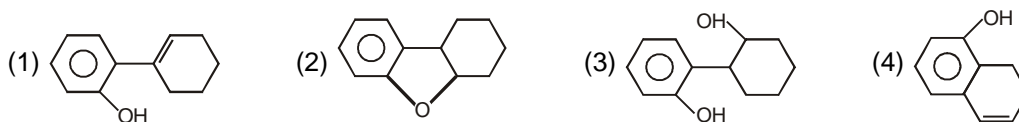
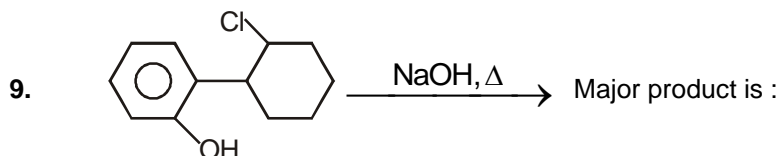
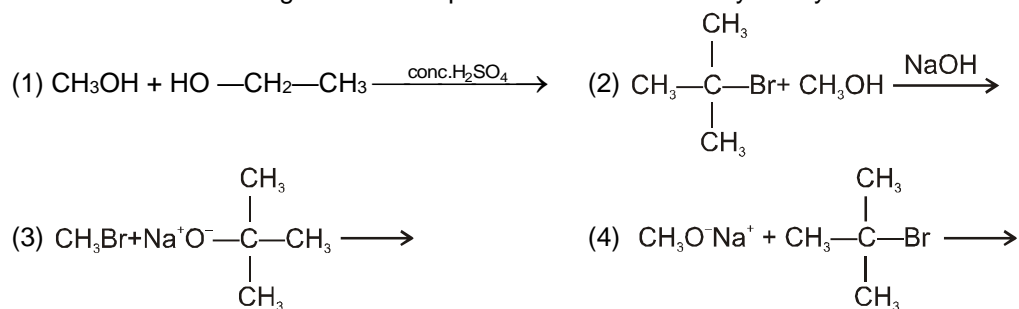
DPP NO. 2

DPP No. : 2

- When excess of ethyl alcohol heated at 140°C with concentrate sulphuric acid the compound that distill is:
 - (1) $\text{C}_2\text{H}_5\text{—O—C}_2\text{H}_5$
 - (2) Ethyl hydrogen sulphate
 - (3) $\text{CH}_2 = \text{CH}_2$
 - (4) di ethyl sulphate
- Which of the following step is involved in the acid catalysed dehydration of alcohols?
 - (1) Expulsion of a OH^- ion
 - (2) A free radical intermediate formation
 - (3) A carbocation intermediate formation
 - (4) A carbanion intermediate formation
- Dehydration of alcohol is an example of :
 - (1) addition reaction
 - (2) substitution reaction
 - (3) elimination reaction
 - (4) rearrangement
- Thionyl chloride method is preferred over phosphorus pentachloride method for the preparation of alkyl chloride because-
 - (1) The reaction goes to completion.
 - (2) The by-products being gases escape into the atmosphere leaving behind almost pure alkyl chloride.
 - (3) Thionyl chloride is cheap while phosphorus pentachloride is costly.
 - (4) None of the above.
- Primary, secondary and tertiary alcohols are distinguished by
 - (1) Oxidation method
 - (2) Lucas test
 - (3) Victor mayer's test
 - (4) All of the above
- For the reaction, $\text{C}_2\text{H}_5\text{OH} + \text{HX} \xrightarrow{\text{ZnX}_2} \text{C}_2\text{H}_5\text{X}$, the order of reactivity is :
 - (1) $\text{HI} > \text{HCl} > \text{HBr}$
 - (2) $\text{HI} > \text{HBr} > \text{HCl}$
 - (3) $\text{HCl} > \text{HBr} > \text{HI}$
 - (4) $\text{HBr} > \text{HI} > \text{HCl}$
- Among the following, the one which reacts most readily with ethanol is
 - (1) p-nitro benzyl bromide
 - (2) p-chloro benzyl bromide
 - (3) p-methoxy benzyl bromide
 - (4) p-methyl benzyl bromide



8. In which of the following reaction the product obtained is t-butylmethyl ether?



Which is correct option for the above reaction.

- (1) Reaction 2nd follows unimolecular mechanism mainly.
- (2) Reactant & product Y have same configuration
- (3) In the reaction 2nd Walden inversion takes place at α carbon.
- (4) All are correct.

ANSWER KEY

1. (1) 2. (3) 3. (3) 4. (2) 5. (4) 6. (2) 7. (3)
8. (3) 9. (2) 10. (3)