

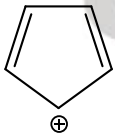

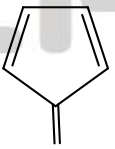
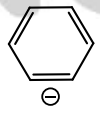
DPP

DAILY PRACTICE PROBLEMS

CLASS : XIIth
DATE :

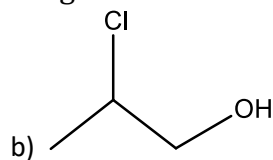
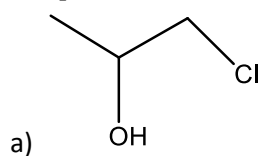
SUBJECT : CHEMISTRY
DPP NO. : 1

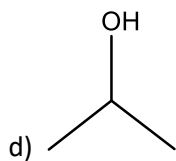
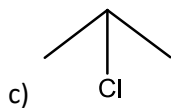
Topic :-HYDROCARBONS

- The presence of unsaturation (olefinic or acetylinic bond) in an organic compound can be tested with:
 - Schiff's reagent
 - Tollen's reagent
 - Fehling's solution
 - Baeyer's reagent
- An alkene on reductive ozonolysis gives 2-molecules of $\text{CH}_2(\text{CHO})_2$. The alkene is
 - 2,4-hexadiene
 - 1,3-cyclohexadiene
 - 1,4-cyclohexadiene
 - 1-methyl-1, 3-cyclopentadiene
- A mixture of ethyl iodide and *n*-propyl iodide is subjected to Wurtz reaction. The hydrocarbon that will not be formed is:
 - n*-butane
 - n*-propane
 - n*-pentane
 - n*-hexane
- Which of the following reacts with benzene in presence of anhydrous aluminium chloride and forms acetophenone?
 - CH_3Cl
 - CH_3COOH
 - CH_3CHO
 - CH_3COCl
- Oxidation of 1-butene with hot KMnO_4 solution produces
 - $\text{CH}_3\text{CH}_2\text{COOH} + \text{HCOOH}$
 - $\text{CH}_3\text{CH}_2\text{COOH} + \text{CO}_2$
 - $\text{CH}_3\text{COOH} + \text{CO}_2$
 - $(\text{CH}_3)_2\text{C} = \text{O} + \text{CO}_2$
- Action of Br_2 on cyclopentene gives:
 - 1,2-dibromo cyclopentane
 - Cyclopentyl bromide
 - Cyclopentyl dibromide
 - No reaction
- Which of the following species is aromatic?
 - 
 - 
 - 
 - 
- Propene, $\text{CH}_3 - \text{CH} = \text{CH}_2$ can be converted into 1-propanol by oxidation. Which set of reagents among the following is ideal to effect the conversion?
 - Alkaline KMnO_4
 - B_2H_6 and alk. H_2O_2
 - O_3 /zinc dust
 - $\text{OsO}_4/\text{CHCl}_3$
- Compound which gives acetone on ozonolysis
 - $\text{CH}_3 - \text{CH} = \text{CH} - \text{CH}_3$
 - $(\text{CH}_3)_2\text{C} = \text{C}(\text{CH}_3)_2$
 - $\text{C}_6\text{H}_5\text{CH} = \text{CH}_2$
 - $\text{CH}_3\text{CH} = \text{CH}_2$

10. Toluene, when treated with Br_2/Fe , gives p-bromotoluene as the major product because the $-\text{CH}_3$ group
- Is *meta* directing
 - deactivates the ring
 - activates the ring by hyperconjugation
 - None of the above
11. Alkynes occur in nature in the:
- Free state
 - Partially free state
 - Not in the free state
 - None of the above
12. Which of the following will have least hindered rotation about carbon-carbon bond?
- Ethane
 - Ethylene
 - Acetylene
 - Hexachloroethane
13. Identify Z in the series,
- $$\text{CH}_2 = \text{CH}_2 \xrightarrow{\text{HBr}} X \xrightarrow{\text{aq.KOH}} Y \xrightarrow[\text{I}_2 \text{ excess}]{\text{NaCO}_3} Z$$
- $\text{C}_2\text{H}_5\text{I}$
 - $\text{C}_2\text{H}_5\text{OH}$
 - CHI_3
 - CH_3CHO
14. Action of NH_3 over C_2H_2 at high temperature gives:
- Amine
 - Furan
 - Thiophene
 - Pyrrole
15. Wurtz reaction converts alkyl halide into alkane when it is made to react with
- Na in alcohol
 - Na in dry ether
 - Zn in alcohol
 - Zn in dry ether
16. Polyethylene is a resin obtained by polymerization of:
- Butadiene
 - Ethylene
 - Isoprene
 - Styrene
17. Cyclohexane (C_6H_{12}) a hydrocarbon, floats on water because:
- It is immiscible with water
 - Its density is less than that of water
 - It is a non-polar substance
 - It is immiscible and lighter than water
18. Which of the following are produced from coaltar?
- Synthetic dyes
 - Drugs
 - Perfumes
 - All of these
19. The reduction of an alkyne to alkene using lithium metal in liquid ammonia as solvent results into
- cis* addition of hydrogen atoms
 - trans* addition of hydrogen atoms
 - Both *cis* and *trans* additions of hydrogen atoms. The relative amounts of the two depends on temperature
 - Both *cis* and *trans* additions of hydrogen atoms. The relative amounts depend on the nature of alkyne

20. Propene on reaction with hypochlorous acid to give





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COACHING