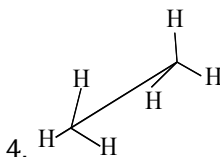
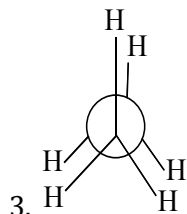
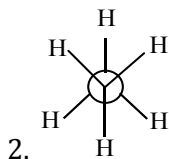
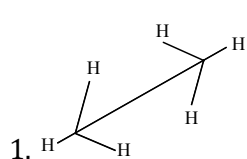


CLASS : XII<sup>th</sup>  
DATE :

SUBJECT : CHEMISTRY  
DPP NO. : 5

## Topic :-HYDROCARBONS

1. In the following structures which two forms are staggered conformation of ethane?



a) 1 and 4

b) 2 and 3

c) 1 and 2

d) 1 and 3

2. A mixture of ethane, ethene and ethyne is passed through ammoniacal  $\text{AgNO}_3$  solution. The gases which remain unreacted are:

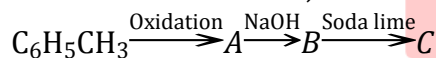
a) Ethane and ethene

b) Ethane and ethyne

c) Ethene and ethyne

d) Ethane only

3. In the reaction,



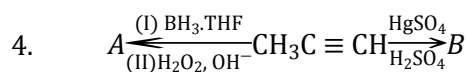
The product C is

a)  $\text{C}_6\text{H}_5\text{OH}$

b)  $\text{C}_6\text{H}_6$

c)  $\text{C}_6\text{H}_5\text{COONa}$

d)  $\text{C}_6\text{H}_5\text{ONa}$



Identify A and B

a)  $\text{CH}_3\text{CHO}$ ,  $\text{CH}_3\text{COCH}_3$

b)  $\text{CH}_3\text{CH}_2\text{CHO}$ ,  $\text{CH}_3\text{COCH}_3$

c)  $\text{CH}_3\text{CH}_2\text{CHO}$ ,  $\text{CH}_3\text{COCH}_2\text{CH}_3$

d)  $\text{HCHO}$ ,  $\text{CH}_3\text{COCH}_3$

5. Cyclobutadiene is said to be

a) aromatic

b) aliphatic

c) non-aromatic

d) None of these

6. Acetylene reacts with hypochlorous acid to form

a)  $\text{Cl}_2\text{CHCHO}$

b)  $\text{ClCH}_2\text{COOH}$

c)  $\text{Cl}_3\text{COCl}$

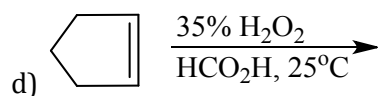
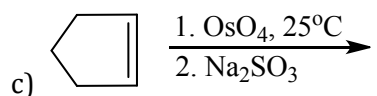
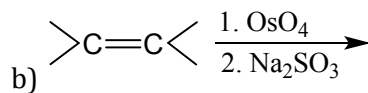
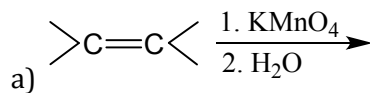
d)  $\text{ClCH}_2\text{CHO}$

7. To enable easy detection of gas leakage from cylinders, the substance added to L.P.G. is:  
 a) Glycols                      b) Phenols                      c) Thioalcohols                      d) Glycerols
8. Octane no. of 2,3,3-trimethylbutane has been assumed to be:  
 a) 100                      b) - 45                      c) 124                      d) Zero
9.  $C_4H_6$  may contain  
 a) One double bond                      b) Two double bond                      c) One triple bond                      d) Both (b) and (c)
10. Which of the following compounds can form metallic derivatives?  
 a) Ethane                      b) Propyne                      c) 2-butyne                      d) 2-butene
11. Increasing order of volatility of  $C_2H_6$ ,  $C_2H_4$ ,  $C_2H_2$  and  $C_6H_6$  is:  
 a)  $C_6H_6, C_2H_6, C_2H_4, C_2H_2$                       b)  $C_2H_2, C_2H_4, C_2H_6, C_6H_6$                       c)  $C_6H_6, C_2H_2, C_2H_4, C_2H_6$                       d)  $C_2H_2, C_2H_6, C_2H_4, C_6H_6$
12. Octane no. of a fuel can be increased by:  
 a) Isomerism                      b) Alkylation                      c) Reforming                      d) All of these
13. 1-propanol on dehydration with  $H_2SO_4$  produces:  
 a)  $CH_3 - CH = CH_2$   
 b)  $CH_3 - CH = CH - CH_3$   
 c)  $CH_3CH_2CH_2OCH_2CH_2CH_3$   
 d)  $CH_3CH_2CH_2CH_2CH = CH_2$
14. Propadiene,  $C_3H_4$  molecule contains:  
 a) Two  $sp^2$  and one  $sp$ -hybrid carbon  
 b) One  $sp^2$  and two  $sp$ -hybrid carbons  
 c) One  $sp^2$  and three  $sp$ -hybrid carbons  
 d) None of the above
15. Catalyst used in dimerization of acetylene to prepare chloroprene is:  
 a)  $HgSO_4 + H_2SO_4$                       b)  $Cu_2Cl_2$                       c)  $Cu_2Cl_2 + NH_4Cl$                       d)  $Cu_2Cl_2 + NH_4OH$
16. Cyclopentene on treatment with alkaline  $KMnO_4$  gives:  
 a) Cyclopentanol  
 b) *trans*-1,2-cyclopentanediol  
 c) *cis*-1,2-cyclopentanediol  
 d) 1 : 1 mixture of *cis*- and *trans*-1,2-cyclopentanediol
17.  $C_7H_8 \xrightarrow{3Cl_2, \text{Heat}} A \xrightarrow{Fe/Br_2} B \xrightarrow{Zn/HCl} C$   
 Here, the compound C is  
 a) 3-bromo 2,4,5,6-trichlorotoluene                      b) *o*-bromo toluene  
 c) *p*-bromo toluene                      d) *m*-bromo toluene

18. Naphalene is an example of  
a) Polynuclear hydrocarbon  
c) heterocyclic compound

b) alicyclic compound  
d) aliphatic compound

19. Which of the following will give *trans*-diols?



20. Benzene can react with

a) Bromine water    b)  $\text{HNO}_3$

c)  $\text{H}_2\text{O}$

d)  $\text{CH}_3\text{OH}$

PE