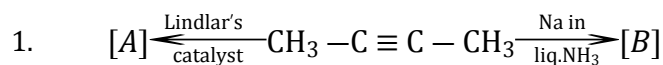


CLASS : XII<sup>th</sup>  
DATE :

SUBJECT : CHEMISTRY  
DPP NO. : 9

## Topic :-HYDROCARBONS



[A] and [B] are respectively

- |                                |                                |
|--------------------------------|--------------------------------|
| a) <i>cis, trans</i> -2-butene | b) Both <i>trans</i> -2-butene |
| c) <i>trans, cis</i> -2-butene | d) Both <i>cis</i> -2-butene   |
2. Which of the following reacts with  $\text{KMnO}_4$  but does not react with  $\text{AgNO}_3$ ?
- |                           |                  |                           |                           |
|---------------------------|------------------|---------------------------|---------------------------|
| a) $\text{C}_2\text{H}_6$ | b) $\text{CH}_4$ | c) $\text{C}_2\text{H}_4$ | d) $\text{C}_2\text{H}_2$ |
|---------------------------|------------------|---------------------------|---------------------------|
3. Octane number 116 is given for:
- a) 2,2,2-trimethyl pentane
  - b) 2,3,4-trimethyl pentane
  - c) 2,2,3-trimethyl butane
  - d) 2,2,4-trimethyl butane
4. Which of the following statements is incorrect?
- a) Acetylene is explosive above 2 atm
  - b) It is transported by dissolving in acetone
  - c) It has unpleasant garlic odour
  - d) It is used in the manufacture of Lewisite
5. Formation of ethylene from ethyl bromide is a case of:
- a) Addition reaction
  - b) Substitution reaction
  - c) Elimination reaction
  - d) Rearrangement reaction
6. The most stable alkene is,
- |                  |                |                                |                 |
|------------------|----------------|--------------------------------|-----------------|
| a) $R_2C = CR_2$ | b) $RCH = CHR$ | c) $\text{CH}_2 = \text{CH}_2$ | d) $RCH = CR_2$ |
|------------------|----------------|--------------------------------|-----------------|
7. Ethylene can be prepared by electrolysis of an aqueous solution of:
- |                   |                     |                    |                      |
|-------------------|---------------------|--------------------|----------------------|
| a) Sodium acetate | b) Sodium succinate | c) Sodium fumarate | d) Sodium propionate |
|-------------------|---------------------|--------------------|----------------------|

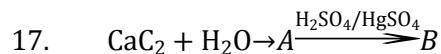


15. At low temperature, the slow addition of molecular bromine to  $\text{H}_2\text{C}=\text{CH}-\text{CH}_2-\text{C}\equiv\text{CH}$  gives:

- a)  $\text{CH}_2=\text{CH}-\text{CH}_2-\text{CBr}=\text{CHBr}$
- b)  $\text{BrCH}_2-\text{CHBr}-\text{CH}_2-\text{C}\equiv\text{CH}$
- c)  $\text{H}_2\text{C}=\text{CH}-\text{CH}_2-\text{CH}_2-\text{CBr}_3$
- d)  $\text{CH}_3-\text{CBr}_2-\text{CH}_2-\text{C}\equiv\text{CH}$

16. Which of the following statement is correct?

- a) Benzene has a tetrahedral geometry like an alkane
- b) Benzene is aromatic while naphthalene is not
- c) Benzene and Cyclohexane are both aromatic
- d) Benzene behaves more like and alkane than an alkene

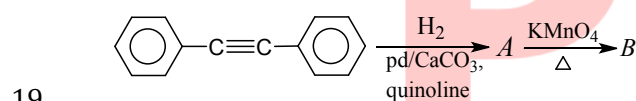


Identify A and B in the given reaction

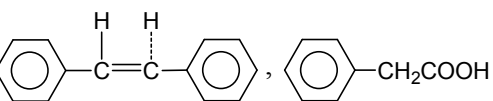
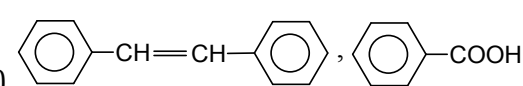
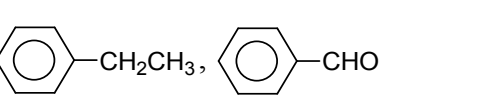
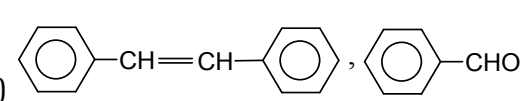
- a)  $\text{C}_2\text{H}_2$  and  $\text{CH}_3\text{CHO}$
- b)  $\text{CH}_4$  and  $\text{HCOOH}$
- c)  $\text{C}_2\text{H}_4$  and  $\text{CH}_3\text{COOH}$
- d)  $\text{C}_2\text{H}_2$  and  $\text{CH}_3\text{COOH}$

18. The correct boiling point order for corresponding hydrocarbons is:

- a) Alkyne > alkane > alkene
- b) Alkane > alkene > alkyne
- c) Alkyne > alkene > alkane
- d) Alkene > alkyne > alkane



Identify A and B

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

20. Electrolysis of cold concentrated aqueous solution of potassium methyl succinate yields:

- a) Ethane
- b) Ethyne
- c) Propene
- d) Ethane-1,2-diol