

CLASS: XIIth
DATE:
SUBJECT: CHEMISTRY
DPP NO.: 7

DFF NO.; /

Topic:-HYDROCARBONS

1. A mixture of methane and steam when passes over nickel supported on alumina catalyst at 725°C gives:				
723	a) CH ₃ OH	b) CO ₂ and H ₂	c) CO and H ₂	d) None of these
2.	In which reaction addition takes place according to Markownikoff's rule? a) $CH_3CH = CH_2 + Br_2 \rightarrow$ b) $CH_3CH = CH_2 + HBr \rightarrow$ c) $CH_2 = CH_2 + HBr \rightarrow$ d) $CH_3CH = CHCH_3 + Br_2 \rightarrow$			
3.	Paraffin wax is: a) Ester Saturated hydrocarbor	b) Alcohol	c) Unsaturated hydroca	arbon d)
4.	Propyne when passe a) Benzene c) Dimethyl benzene	ed th <mark>rough a hot iro</mark> n t	ube at 400°C produces b) Methyl benzene d) Trimethyl benzene	
5.	Which of the following a) C_2H_4	ng is <mark>calle</mark> d Marsh gas? b) C ₂ H ₆	c) C ₂ H ₂	d) CH ₄
6.	Which can be easily ox a) Alkene	idized? b) 1-alkyne	c) Alkane	d) Benzene
7. mol	 n-butane and isobutene, which have same number of hydrogen and carbon atoms in their olecules, boil at different temperatures because: a) n-butane is much hotter b) Their volumes are different c) Isobutene is an alkene d) Their atoms are not having the same carbon chain 			
8.	Common oxidizing age a) Fenton's reagent	nts used in organic chen b) Osmium tetraoxide		d) Alkaline KMnO ₄

- 9. Acetylenic hydrocarbons are acidic because:
- a) Sigma electron density of C—H bond in acetylene is nearer a carbon which has 50% s-character
 - b) Acetylene has only one hydrogen atom at each carbon atom
 - c) Acetylene contains least number of hydrogen atoms among the possible
 - d) Acetylene belongs to the class of alkynes with formula C_nH_{2n-2}
- 10. Butene -1 may be converted to butane by the reaction with:
 - a) Zn-Hg
- b) $Pd-H_2$
- c) Zn-HCI
- d) Sn-HCI

- 11. Number of acidic hydrogen atom in butyne-1 is:
 - a) 2

b)3

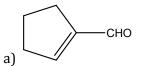
c) 1

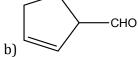
- d)4
- 12. Propene on reaction with methylene iodide in presence of Zn-Cu couple gives:
 - a) Cyclopropane
- b) Cyclopropene
- c) Methyl cyclopropane d) Cyclobutene
- 13. Addition of O_2 on ethylene in presence of Ag at 200° C forms:
 - a) Epoxy ethane
- b) Oxiranes
- c) Cyclic ethers
- d) All of these

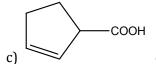
- 14. The carbon-carbon bond distance in benzene is
 - a) Longer than a C C single bond
- b) Longer than a C = C double bond
- c) Shorter than a C = C double bond
- d) Shorter than a $C \equiv C$ triple bond
- 15. Method of converting high boiling hydrocarbons into low boiling hydrocarbons is called:
 - a) Polymerisation
- b) Isomerisation
- c) Cracking
- d) Condensation

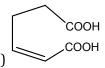
- 16. The mechanism of Wurtz reaction involves:
 - a) Free radical
- b) Carbocation
- c) Carbanion
- d) None of these
- 17. The most important energy yielding constituent in biogas is:
 - a) C_2H_4
- b) C_2H_2
- c) CH₄
- $d)H_2S$

- 18. PVC is a polymer of:
 - a) $CH_2 = CH_2$
- b) ClCH₂—CH₂Cl
- c) CH₂—CHCl
- d)Cl-C = C-Cl
- 19. Cyclohexene on ozonolysis followed by reaction with zinc dust and water gives compound E. Compound E on further treatment with aqueous KOH yields compound E. Compound E is









- 20. The flash point in India is fixed at:
 - a) 44°C
- b)35°C
- c) 22.8°C
- d)30°C