

CLASS: XIIth DATE:

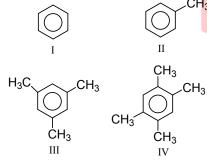
SUBJECT: CHEMISTRY

DPP NO.: 8

- 1. Which of the following have delocalised electron?
 - a) Benzene
- b) Cyclohexane
- c) CH₄
- $d)C_2H_6$

- 2. The IUPAC name of $CH_2 = CH CH_2$ —group is:
 - a) Allyl
- b) Propyl
- c) Prop-2-enyl
- d) Prop-1-enyl

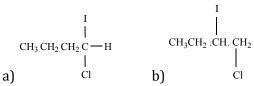
- 3. Which statement is correct?
 - a) Low chemical reactivity of alkanes is due to strong C—C and C—H bonds
 - b) Alkanes show characteristic substitution reactions because they are saturated
 - c) Reaction of alkanes with fluorine is explosive even in dark
 - d) All of the above
- 4. Ease of sulphonation of alkanes is:
 - a) $3^{\circ} > 2^{\circ} > 1^{\circ}$
- b) 1°>2°>3°
- c) 2°>3°>1°
- d)3 $^{\circ}$ >1 $^{\circ}$ >2 $^{\circ}$
- 5. Arrange the following in order of decreasing boiling point



- a) I > II > III > IV b) IV > III > II > I c) I > III > IV > II d) II > III > IV > IV

The product *B* is:

$$CH_3.CH_2.C = CH + HCI \rightarrow B \stackrel{HI}{\rightarrow} C$$



- $_{\rm C}$) $_{\rm CH_3CH_2}$ $_{\rm C}\equiv_{\rm CH}$
- d) CH₃CH=CHCH₃

7.	n-propyl bromide on a) Propane	treating with alcoholi b) Propene	c KOH produces c) Propyne	d) Propanol
8.	An unsaturated hydrocarbon upon ozonolysis getaldehyde and methylglyoxal(CH_3COCHO). The says $CH_2 = CH - CH_2 - CH = CH_2$ c) $(CH_3)_2C = CH - CH_3$		structure of the hydrocarbon is	
9.	Fischer-Tropsch proces a) Synthetic petrol	ss is used in the manufac b) Ethanol	cture of: c) Benzene	d) Ethanoic acid
10.		meric with butane-1. The base 1.3 Ammoniacal AgNO $_3$		by: d) 0 ₃ , Zn/H ₂ 0
11.	Acetylene reacts with 4 a) $C_2H_5HSO_4$	$42\%~{ m H}_2{ m SO}_4$ containing 19	% HgSO ₄ to give: c) HCHO	d) $CH_2 = CH_2$
12.	The simplest alkyne is: a) CH	b) CH ₂	c) C ₂ H ₂	d) C ₂ H ₄
13.	A Friedel-Crafts reaction a) C ₆ H ₅ CHCl ₂	on of benzene with chlor CI C_6H_5 C_6H_5	oform produces $\begin{array}{c} C_6H_5\\ C_6H_5-C-C_6H_5\\ C_0+C_6H_5\end{array}$	d) All of these
	14. An alkene, obtained by the dehydration of an alcohol (A), on ozonolysis gives two molecules of acetaldehyde for every molecule of alkene. The alcohol (A) is: $CH_3CH_2CHCH_3$			
	a) CH ₃ CH ₂ CH ₂ OH	b) CH ₃ CH ₂ OH	c) $CH_3CH = CHCH_2OH$	d) OH
15.	Which of the following a) Benzene	annulenes is <i>anti-</i> aroma b) Cyclobutadiene	atic? c) Cyclodecapentene	d) Cyclooctatetraene
16.	The number of possible a) 2	e isomers of alkane with b) 3	formula C ₆ H ₁₄ is: c) 4	d) 5
17.	Which statement is correct?			

- a) Alkanes from CH_4 to C_4H_{10} are colourless odourless gases
- b) Alkanes from C_5H_{12} to $C_{17}H_{36}$ are colourless liquids
- c) All alkanes are lighter than water
- d) Melting point of alkanes increases with increase in the number of carbon atoms
- 18. Which compound does not decolourize bromine dissolved in carbon tetrachloride?

19. The principal organic product formed in the reaction,

 $CH_2 = CH(CH_2)_8COOH + HBr \xrightarrow{Peroxide} \dots is:$

- a) CH₃—CHBr(CH₂)₈COOH
- b) $CH_2 = CH(CH_2)_8COBr$
- c) CH₂BrCH₂(CH₂)₈COOH
- d) $CH_2 = CH(CH_2)_7 CHBrCOOH$
- 20. What would be the product formed when 1-bromo-3-chlorocyclobutane reacts with two equivalents of metallic sodium in ether?







