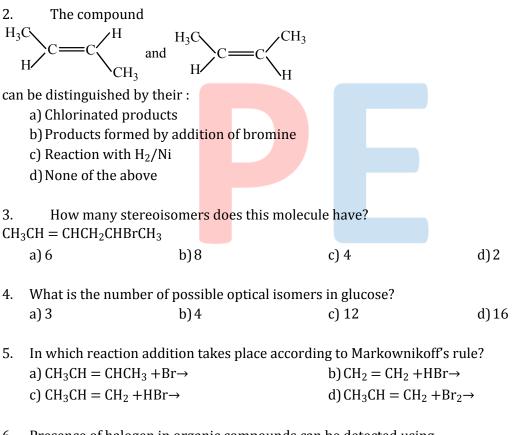


CLASS : XIIth DATE : SUBJECT : CHEMISTRY DPP NO. : 6

## **Topic :-**ORGANIC CHEMISTRY - SOME BASIC PRINCIPLES AND TECHNIQUES

1. If *X* is halogen the correct order for  $S_N 2$  reactivity is :

a)  $R_2$ CH $X > R_3$ CX > RCH $_2X$ b) RCH $_2X > R_3$ CX > RCH $_2X$ c) RCH $_2X > R_2$ CH $X > R_3X$ d)  $R_3$ C $X > R_2$ CHX > RCH $_2X$ 



- 6. Presence of halogen in organic compounds can be detected using<br/>a) Leibig's testb) Duma's testc) Kjeldahl testd) Beilstein's test
- 7. The bond energy for catenation next to carbon is :a) Nb) Sc) Sid) P
- 8. The hydrolysis of alkyl halides by aqueous NaOH is best termed as :a) Electrophilic substitution reaction

	b) Electrophilic addition reaction				
	c) Nucleophilic addition reaction				
	d) Nucleophilic substitution reaction				
9.	Which of the following compounds exhibit stereoisomerism?				
	a) 3-methyl butyne –1		b) 2-methyl butene –1		
	c) 2-methyl butanoic acid		d) 3-methyl butanoic acid		
10	The + I.E.(inductive effect) is shown by :				
10.		—OH	c) F	d)— $C_6H_5$	
	a) CH3 D)-	-011	C) I	uj—0 <sub>6</sub> 115	
11.	In paper chromatography				
	a) Mobile phase is liquid and stability phase is solid				
	b) Mobile phase is solid and stationary phase is liquid				
	c) Both phases are liquids				
	d) Both phases are solids				
12.	Which one of the following is not found in alkenes?				
	a) Chain isomerism b) Geometrical isomerism				
	c) Metamerism				
	d)Position isomerism				
13.	Select the correct statemen	it:			
	a) The prefixes are written <mark>befor</mark> e the name of compound b) The suffixes are written after the name of compound c) The IUPAC name of a compound is always written as one word				
	d) All of the above				
14. A compound contains 2 dissimilar asymmetric carbon atoms. The number of optically active					
isor	ners is :				
	a) 2 b) 3	3	c) 4	d)5	
15.	The inductive effect				
	<ul> <li>a) Implies the atom's ability to cause bond polarization</li> <li>b) Increases with increase of distance</li> <li>c) Implies the transfer of lone pair of electrons from more electronegative atom to the lesse</li> </ul>				
,					
electronegative atom in a molecule					
,	d) Implies the transfer of lone of electrons from lesser electronegative atom to the more				
electronegative atom in a molecule					
16 UIDAC name of the compound CICH CH COOU is					
16.	16. IUPAC name of the compound, ClCH <sub>2</sub> CH <sub>2</sub> COOH is :				

a) 3-chloropropanoic acid

- b) 2-chloropropanoic acid
- c) 2-chloroethanoic acid
- d) Chlorosuccinic acid

17. Which one is a nucleophilic substitution reaction among the following?

a)  $CH_{3}CHO + HCN \rightarrow CH_{3}CH(OH)CN$   $CH_{3}-CH=CH_{2}+H_{2}O \xrightarrow{H^{+}}CH_{3}-CH-CH_{3}$ b) OH  $RCHO+R'MgX \rightarrow R-CH-R'$ c) OH  $CH_{3}-CH_{2}-CH-CH_{2}Br+NH_{3}\rightarrow CH_{3}$  $CH_{3}-CH_{2}-CH-CH_{2}NH_{2}$ 

18. If there is no rotation of plane polarised light by a compound in a specific solvent, though to be chiral, it means that :

- a) It is certainly *meso*
- b) It is racemic mixture
- c) It is certainly not chiral
- d) No such compound
- 19. Formation of ethylene from acetylene is an example of
  - a) Elimination reaction
  - c) Condensation reaction

b) Substitutions reaction d) Addition reaction

- 20. Which of the following is nucleophilic addition reaction?
  - a) Hydrolysis of ethyl chlor<mark>ide by NaOH</mark>
  - c) Alkylation of anisol

b) Purification of acetaldehyde by NaHSO<sub>3</sub>d) Decarboxylation of acetic acid