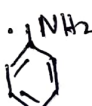
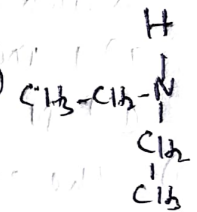


By Ghalib sir class-xi Practice set-01 organic chemistry

- ① compound having general formula $C_nH_{2n}O$ is
 (a) Alkanol (b) Alkene (c) Ether (d) Acid
- ② Number of sigma (σ) bonds in phenol is
 (a) 6 (b) 8 (c) 3 (d) 13
- ③ The IUPAC name of sec-Butyl chloride is
 (a) 3-chlorobutane (b) 2-chlorobutane (c) 1-chloro-2-methyl propane
 (d) 2-chloro-2-methyl propane
- ④ Which of the following is the functional group of primary amine?
 (a) $-NH-$ (b) $-NH_2$ (c) NH (d) NH_3^+
- ⑤ The functional group of carboxylic acid is
 (a) $-CHO$ (b) $-CO-$ (c) $-COOH$ (d) $-OH$
- ⑥ An ester can be represented by which of the following formulae?
 (a) $RCOR$ (b) $RCOOR$ (c) $RCOOH$ (d) $RCHO$
- ⑦ Which of the following is a tertiary amine?
 (a)  (b) $CH_3-NH-CH_3$ (c) $CH_3-\overset{CH_3}{\underset{|}{N}}-CH_2CH_3$ (d) 
- ⑧ How many isomeric ethers are represented by $C_4H_{10}O$?
 (a) 3 (b) 2 (c) 4 (d) 5
- ⑨ Electrophiles will readily attack on which of the following?
 (a) Chlorobenzene (b) Benzene (c) Phenol (d) Toluene
- ⑩ Which of the following is used as formalin?
 (a) $HCHO$ (b) CH_3CHO (c) CH_3CH_2CHO (d) CH_3COCH_3
- ⑪ The formula of chloral is
 (a) $CHCl_3$ (b) $CHClCHO$ (c) CCl_3CHO (d) $CHCl_2CHO$
- ⑫ The IUPAC name of $HCOOH$ is
 (a) Formic Acid (b) Methanoic Acid (c) Acetic Acid (d) Ethanoic Acid
- ⑬ The correct IUPAC name for $CH_3-CH(CH_2Br)-CH_2Br$ is
 (a) 1-Bromo-2-ethylpropane (b) 1-Bromo-2-methylbutane
 (c) 1-Bromo-2-ethyl-2-methylethane (d) 2-methyl-1-bromobutane

- (14) Which of the following molecules is chiral in nature?
 (a) 2-Bromobutane (b) 1-Bromobutane (c) 2-Bromopentane (d) 2-Bromo Propan-2-ol
- (15) Which of the following is an electrophilic reagent?
 (a) BF_3 (b) NH_3 (c) H_2O (d) None of these
- (16) Alkene gives which of the following reactions?
 (a) Addition rxn (b) Substitution rxn (c) Both A & B (d) None of these
- (17) In which of the following molecules carbon atom marked with ~~the~~ (*) is asymmetric (chiral)?
- (a)

(b)

(c)

(d)
- (a) 1, 2, 3, 4 (b) 1, 2, 3 (c) 2, 3, 4 (d) 1, 3, 4
- (18) The general formula of Aldehyde & ketone is
 (a) $\text{C}_n\text{H}_{2n+2}\text{O}$ (b) $\text{C}_n\text{H}_{2n}\text{O}$ (c) $\text{C}_n\text{H}_{2n-2}\text{O}$ (d) $\text{C}_n\text{H}_{2n+4}\text{O}$
- (19) Which of the following is a 3° amine?
 (a) 1-methyl cyclohexylamine (b) Triethylamine (c) tert-butylamine (d) N-methylamine
- (20) The correct IUPAC name for $\text{CH}_2=\text{CHCH}_2\text{NHCH}_3$ is
 (a) Allyl methylamine (b) 2-amino-4-pentene (c) 4-aminopentene (d) N-methyl prop-2-ene-1-amine
- (21) Which is the most stable carbocation?
 (a) $(\text{CH}_3)_2\text{CH}^+$ (b) $\text{C}_6\text{H}_5-\text{CH}_2^+$ (c) $(\text{CH}_3)_3\text{C}^+$ (d) $\text{CH}_2=\text{CHCH}_2^+$
- (22) Which is strongest nucleophile?
 (a) CH_3^+ (b) $\text{CH}_3-\text{CH}_2^+$ (c) NH_2^+ (d) CH_3-O^+
- (23) Which is the correct IUPAC name for

$$\begin{array}{c} \text{CH}_3-\text{CH}-\text{CH}_2-\text{Br} \\ | \\ \text{CH}_3 \end{array}$$

 (a) 1-Bromo-2-ethylpropane (b) 1-Bromo-2-ethyl-2-methylethane (c) 1-Bromo-2-methylbutane (d) 2-methyl-1-bromobutane
- (24) The formula of methanol is
 (a) CH_3OH (b) CH_3ONa (c) HCHO (d) CH_4
- (25) IUPAC Name of the compound given below is

$$\begin{array}{c} \text{CH}_3-\text{CH}-\text{CH}_2-\text{CH}-\text{CH}-\text{CH}_3 \\ | \quad \quad \quad | \\ \text{Cl} \quad \quad \quad \text{OH} \end{array}$$

 (a) 2-chloro-5-hydroxyhexane (b) 5-chlorohexan-2-ol (c) 2-chloro-5-hydroxyhexane (d) 2-chlorohexan-5-ol

① Write IUPAC names of the following:



④ Write short notes on ⑤ Inductive effect ⑥ Resonance

⑦ Give the IUPAC names of the following ⑧ CH_3COOH ⑨ $\text{CH}_2 = \text{CH} - \text{CH}_2 - \text{OH}$

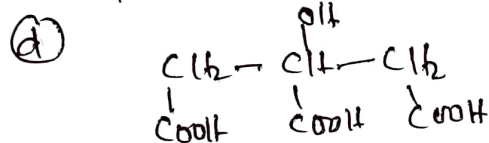
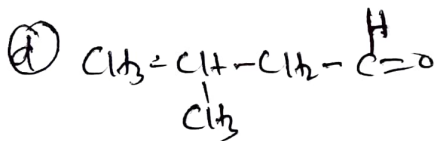
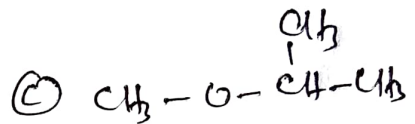
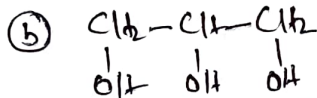
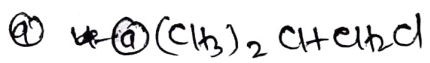
⑩ Write the molecular formula of the following:

⑪ 2-Butanol ⑫ Formic Acid

⑬ Write the structural formula of the following:

⑭ 2-Butanol ⑮ Ethyl acetate

⑯ Write IUPAC names of the following



㉒ Write structural formula of the following

㉓ 4-penten-2-one

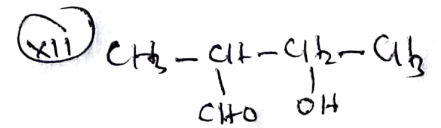
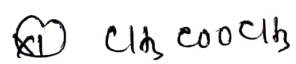
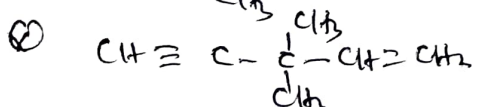
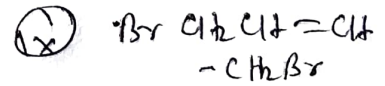
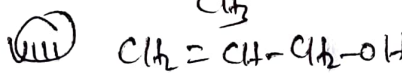
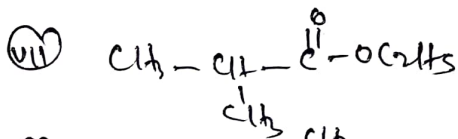
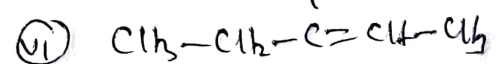
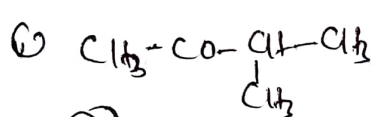
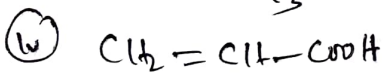
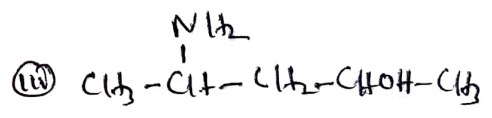
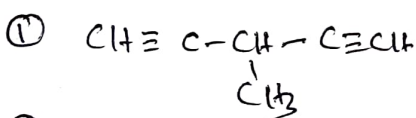
㉔ 2,2-dimethylpropanal

㉕ Trichloroethanol

㉖ 3-methylpentanoic acid

㉗ Ethyl propanoate

㉘ Give IUPAC names of the following



㊶ Write the structural formula of the following

㊷ 4-hydroxy-2-pentanone

㊸ But-1-en-3-yne

㊹ 2-pentene-1-oic Acid

㊺ methyl acetate

㊻ Pentane-3-one

㊼ 4-chloro-2-methylpentanal

㊽ 3-ethyl-2-methyl-1-hexene

㊾ 5,5-dimethyl hexan-2-ol

㊿ 3-bromo-2-hexanone

㊽ 2-methyl butanoic acid

㊽ 1-ethoxy propane

㊽ Cyclohexane amine

㊽ N,N-dimethylethanamine

㊽ 3-hydroxy pentanoic acid

㊽ 2-methoxy ethan-1-ol