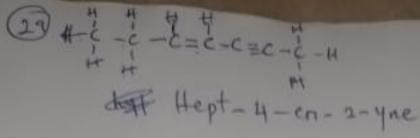
CHM 102 of the une tale.
1. The other name for group II element is A Kerline Carth metals.
2. Which of the following is completely an acid (a). HCl (b). NaCl (c). HBr (d). HI
3. The atomic radius of group 1 element from Li to + (a). Remain constant (b). Increase (c). Decrease (d). Undetermined
4. How many unsaturated isomers are possible for C ₄ H ₈ (a). 4 (b). 6 (c). 5 (d). 3
5. What is the chemical formula for Astatine (a). Tn (b), At (c), As (d). St
6. How many mole of oxygen will be needed for complete combustion of butene?
5. What is the chemical formula for Astatine (a). Tn (b). At (c). As (d). St 6. How many mole of oxygen will be needed for complete combustion of butene? (a). 6 moles (b). 5 moles (c). 5.5 mole (d). 6.5 moles
7. The bend angle in C ₂ H ₄ is (a). 18° (b). 109° (c). 90° (d). 120°
8. Alkanol react with alkanoic acid to form
(a). Alkanoates and water (b). Alkanoates and alkanones (c). Alkanoates and phenol (d). Ester and ethene
9. Acetene reacting with HCN to form a cyanohyetin is an example of a/an
(a). Nuclephilic substitution (b). Nuclephilic addition (c). Electrophilic addition (d). Electrophilic substitution 10. Which one is group I element (a) Rh (b) Rn (c) Ra (d). Rn Pybidium reaction
10. Which one is group I element (2) the (5) the (5) the (5) the
11 has the highest ionization potential (a) Helium (b). Radon (c). Xenon (d). Krypton
12. What is the alkene hybridization (a) Sp ² (b). Sp ³ (c). Sp (d). Sp
13. Which of the following is completely an acid (a). NaCl (b). HCl (c). HBr (d). HI
14. The type of bonding with formation of ammonium ion is known as (a). Coordinate covalent bond (b). Ionic bond (c). Covalent bond Ionic bond (c). Coval
16. Quantitative analysis show that the empirical formula of a compound is CH. The vapour density is found to be 39. Find the molecular formula (a). C ₂ H ₂ (b). C ₆ H ₆ (c). C ₆ H ₁₂ (d). C ₂ H ₆ 17. Group Welement exist freely in the atmosphere as (a). Hybride (b). Diatom (c). Mono atom (d). lons
17. Group Welement exist freely in the atmosphere as (a). Hybride (b). Diatom (c). Mono atom (d). lons
18. One of the product of combustion of pentane in excess air is (a). Pentene (b). Pentanol (c). Pentanal (d). Carbon (iv) oxide
19. How many structure isomer is present in C4H ₀ OH (a). 6 (b). 4 (c). 5 (d). 3
20. Group II of the periodic table is also known as (a). Alkali metals (b). Halogen (c). Alkaline earth metal (d). Noble gas
21. Hybridization contain (x). Sigma bond throughout (b). Pi-bond throughout (c). One sigma and one pi-bond (d). None



is the ability of element to attract ion toward itself (a). Electron affinity (b). Electronegativity (c). Covalent (d). Ionic 23. Reaction between C₂H₂ and HBr is called (a). Addition (b). Polymerization (c). Oxidation (d). The process is Hydrohalogenestian. 24. Reduction of an organic acid gives (a). Secondary alcohol (b). Tertiary alcohol (c). Primary alcohol 25. _____ is used in dry cleaning (a). CH₃Cl₃ (b). CCl₄ (e). CH₂Cl₂ (d). CH₃Cl 26. Alkane have ____ bond (a). Single (b). Double (c). Triple (d). Half 27. Alkane are generally known to be (a). Polar (b). Non-polar (c). Crystalline (d). Cyclo alkane 28. The most reactive element in group I (alkaline metal) is (a). Fr (b). Lf (c). Na (d). Al 29. What is the name given to the compound CH3CH2CH=CHC≡CGH3 30. The valence electron in alkali metal is (9. 1 (b), 3 (c), 2 (d).4 31. Aldehyde undergoes oxidation with KMnO4 to give (a) Ketone (b). Alkanone (c). Carboxylic acid 32. Conversion of pen-1-ene to pen-2-ene when heated at high temperature is (a). Oxidation (b). Isomerism reaction (c). Reduction 33. The central ion in Ni(CO)4 is (a), CO (b), C(o). Ni (d). (CO)4 34. What is the positive ion in Na[Au(CN)2] (a), Au(b), Na (c) Au(CN2) (d), CN 35. Transition metals have what type of bond between atoms (a). Metalic (b). Ionic (c). Covalent (d). Dative 36. Presence of ____ dipole moment gives the fact that the compound has certain ionic character (a). induced (b). Permanent (c). Electric (d). Instanteneous 37. Which of the following fluoride is at soluble (a). Behr (b). Beh (c). BeF (d). Best 38. is a species that has an up paired electron (a). Free radical CH3-CH-CH2-CH=CH2+HC 39. Product of halogenation of Amethylpent-1-enswith Hel is (a). 4-methyl-1-chloropentane (b). 2-Chloro-4-methylpentane (c). 3-Chloro-4-methylpentane (the Chloro-4-methylpentane (the Chloro-4-methylpent diatomic molecule (c). They are all coloured (d). They ionize to form univalent ion 41. Empirical formula = C24H32O7, molecular mass = 875.106. Find the molecular formula (a). $C_{24}H_{42}O_8$ (b). $C_{48}H_{74}O_{14}$ (c). $C_{14}H_{37}O_7$ (d). $C_{12}H_{18}O_3$ 42. Name this (CH₃)₂CHC≡CCH₃ (a). 4,4-dimethylbut-2-yne

43. Li₂O is best prepared by ____ of Li₂O₂ at 450°C (a). Substitution (b). Oxidation (c). Reduction (d).

Thermal decomposition

44. The valence electrons in alkali metals is /are (a), one (b), two (c), three (d), four
45. The combustion of pentene in excess air is (a). pentene (b). Carbon(iv)oxide (c). Pentanol (d). Pentanal 6. 3-methylbutan-3-ol and 3-methylbutan-2-ol is and CH3 (3)
46. 3-methylbutan-3-ol and 3-methylbutan-2-ol is and City (3)
(a). Secondary/Secondary (b). Tertiary/Secondary (c). Secondary/Tertiary (d). Tertiary/Tertiary
47. Which of the following is not an alcohol (a). Monohydric (b). Dihydric (c). Trihydric (d). Tetrahydric
Company to the second of the s
48. IUPAC name for CH ₂ CH=CHC≡CCH ₃ is Diagdie of Cl (a) Hept-4-en-2-yne (b). Hept-3-en-5,yne (c). Hept-4-en-2,yne (d). Hept-3-en-5-yne (d) Hept-4-en-2-yne (d) Hept-3-en-5-yne
49. Reaction between propene and chlorine will result in (a). 1,2-dichloropropane (b). 1.1. dichloropropane (c). 2,2-dichloropropane (d). 1-chloropropane (2). 1,2-dichloropropane (a). 1.1.
50. CH ₃ CH ₃ + Cl ₂ → CH ₃ CH ₂ Cl + HCl . This reaction is?
(a). Saponification (b). Substitution (c). Esterification (d). Addition
51. The bond in NH ₃ BF ₃ molecule is (a), Ionic (b), Hydrogen (c), Covalent (d), Dative covalent
52. How many possible structure isomers are in unsaturated monohydric alkanol C4H ₀ OH
(a). 5 (b). 6 (c). 3 (d). 4
53. Alkenes are generally hybridized (a). Sp (b). Sp³ (c). Sp³ (d). Sp²
54. Fluorine in all compound has oxidation number of (a)2 (b). +2 (c)1 (d)7
55. Reduction of ketone gives(a). Secondary alcohol (b). Primary alcohol (c). Ketal (d). Carboxylic
56. Isomerisation of alkane occur at (a). FICI/300°C (b). CCI ₄ /300°C (c). AICI ₂ /300°C (d). SO ₃ /300°C
57. Alkanones are also known as fetones 58. Ketones are reduced to yield belondary alkanol or alcohol.
58. Ketones are reduced to yield secondary alkano
58. Ketones are reduced to yield <u>secondary</u> allowed to be some power of board of the properties of secondary sigma (σ) bond and pi (π) bond? One Sigma, bare probably the properties bond of alcohol respectively. 60. Reduction of aldehyde and ketone give us <u>1</u> Alcohol and 2° alcohol respectively.
60. Reduction of aldehyde and ketone give us 1 Alcohol and 2 alcohol
61. The bond angle of C2H4 is 116
62. Find the molecular formula of compound containing 84.57 of carbon, 9.86 of hydrogen and 5.63 of oxygen
63. When the carbonyl group of an hydrocarbon is located in between the methylene chain, the hydrocarbon is (a) An alkanal (b). An aldehyde (c). An alkanol (d). None The answer which is ketone
64. The dehydrating agent for secondary agent for secondary alcohol is (a). Weak acid (b). Dilute H ₂ SO ₄ (c). Conc. H ₂ SO ₄ (d). All acids
65. C=O is called (a). Carboxylic group (b). Cabin group (c). Kanal group (d). Carbonyl group

The solubility of Phenols is much love than that of alcohol

66. The solubility of phenol is (a). Higher in water than alcohol (b) Higher in alcohol than water (c). Equal in both liquid (d). None
App II (I am)
68. The H-C-H bond angle in Ct. in (a) tage (b). Propyrie (c). Methane (b). Butane
The state of the s
70. Al' is highly polarizing due to its (a). High melting point (b). Low melting point (c) High charge Rection 2
71. Alkene undergo the following reaction except (a). Substitution (b). Polymerization (c). Addition (d). Hydration
72. Molten sodium chloride is also called (a). Common salt (b). bawuire (c). roundsalt (d). none of the
73. How many structural isomers are possible for C ₄ H ₉ Br (a), 2 (b), 3 (c), 4 (d), 5
74. Alkanols react with alkanoic acid to form Alkanoate (ester) and water
75. The IUPAC name of the compound CH2CH2CH=CHC=CCH2 is Nep -24-ene - 2-yne
76. Any species that contain unpaired electron are called (a). Anion (b), free radicals (c). Cation (d), Ion
77. How many sigma and pi-bond present in the double bond (a), 0, 3 (b), 1, 1 (c), 1, 2 (d), 1, 0
78. 3-methylpentan-3-ol and 3-methylpentan-2-ol are example of and alkanols respectively (a). Secondary, Secondary (c). Tertiary, tertiary (d). Secondary, Tertiary
79. Alkanol react with alkanoic acid to form (a) Alkanoates and water (b). Ester and ethers (c). Alkanoates and phenols (d), Alkanals and Alkanones
30. Sp ³ has sigma bond and # bond (a). 3 and 2 (b). 1 and 0 (c). 4 and 3 (d). 1 and 3
11. The intermediary product of reaction between propene and H ₂ SO ₄ is C ₃ H ₆ + H ₂ SO ₄ -> C ₃ H ₂ OSO ₃ H
a). CH ₂ (SO ₂ H)CH ₂ CH ₃ (b). CH ₃ CH ₂ (SO ₃ H)CH ₃ (c). CH ₃ CH(OSO ₃ H)CH ₂ (d). CH ₃ (OSO ₃ H)CH ₂ CH ₃
2. Alkanola form hydrogen bonding with (a). Another alkanol (b). H ₂ O (c). Carboxylic acid (d). ster
is called alkaline hydrolysis of esters (a). Esterification (b). Saponification (c). Dehydration (d).
The reason why the boiling point of alkanol decreases with increase branching is (a). The molecule bols easily (b). The molecule assumes a circular shape (c). The molecule assume of tetrahedral shape (d). The molecule assumes a spherical shape Boiling Part alreases on wateriar weight weight weight weight weight weight.
Which of the following has the highest boiling point (a). 1" (b). 2" (c). 3" (d). Polyhydric alcohol to substitute
Which of the following has the highest solubility (a). Secondary alcohol (b). Polyhydric alcohol decreed . Tertiary alcohol (d). Dihydric alcohol Order of Salubility 19 20 > 30 the highest war lugh. The raw material for a large scale production of ethanol (a). Starch (b). C3H6 (c). C3H2 (d). C3H3 (d). C3H6 (d).
The raw material for a large scale production of ethanol (a). Starch (b), C3H6 (c), C3H3 (d), C3H6 (d), C3H6
Single bond (Sp3) -) I summa bond increase in mase conthe
Double bond (Sp2) -> 1 sigma and 1 Pidond
Single bond (Sp3) -> 1 sigma bond increase in mass conthe Triple bond (Sp) >> 1 sigma and 1 pi dond Triple bond (Sp) >> 1 sigma and 2 pi bonds

C3H20H -> GHC+ #20

88. Dehydration of propan-1-ol produces (a). Propanoic acid (b). Propanol (c). Propene (d). Propan-1,2,3-triol
89 is called alkaline hydrolysis of esters (a). Esterification (b). Saponification (c). Dehydration (d).
90 is used for etching glass (a). Krf ₂ (b). PVC (e). Hf (d). Cl ₂
91. Potassium naturally occur as (a). OOtomite (b). Camalite (c). Lepilolite (d). Rubidus
92. The hybridization present in alkene is (a). Sp ³ (b). Sp (c). Sp ² (d). Spp
93. At 1 is a polarizing agent because (a). It has high boiling (b). It has melting point (c). It has lower density (d). It has higher density
94 is a very reactive is molecule (a). Ionic (b). Covalent (c). Dative
96. The bond angle in CH4 is 169° 28'
97. The molecular formula of this empirical formula CH is CHy + Bnt) OL > N(OLT
98. How many mole of oxygen is in the combustion of butane 24 Cattanta THE 1302 ->+Cort 5th
96. The bond angle in CH ₄ is
100. (CH ₃) ₂ CHC≡CCH ₃ the IUPAC name is (a). 4-methylpent-2-yne (b). 2-methylpent-3-yne (c). 1.1-dimethylbut-2-yne (d). 4.4-dimethylbut-2-yne (d). 4.4-dimethylbut-2-yne (d).
(c). 1,1-dimethylbut-2-yne (d). 4,4-dimethylbut-2-yne 101. During the 2020 covid-19 pandomic pemdesive was approved on authorized for emergency use the Pent -2- yne
101. During the 2020 covid-19 pandemic remdesivir was approved on authorized for emergency use to Pent -2- year treat covid-19 is around 50 countries. If the molecular formula of remdesivir is C ₂₂ H ₂₅ O ₆ P ₈ . The percentage carbon and phosphorus composition in remdesivir are {C=12, H=1, N=14, O=16 and P=31}
(a), 55.82% and 5.15% respectively (b) 21.26% and 13.5% respectively (c), 5.81% and 53.82% respectively (d) 15.15% and 53.82% respectively
102. Alkanes have following bond exist between moleculous of estantic acid (a) Dative (b) hydrogen (c)
03. The most important reaction of phenols is Kelbe reaction
04. The gas that evolved when alkanols react with sodium is Hydrogen 35
05. Which of the following bond exist between moleculous of estante acid (a) Dative (b) hydrogen (c)
ovalent (d) ionic 06. 2-methylbutan and 2,2 - dimethylpropane are both Structured isomers of Pentane (a) Chain,
abutane (A) Structural, pentane (c) Positional, pentane (d) branched, hexane
07. Which of these is not an optical isomer (a) dibromochlorofloro methane (b) Hydroxylpropanoic acid
butan -2- ol (d) Chloropentanoic acid.

108. Two nitrogen atoms form a stable (Ne) configuration by sharing pair of electron to form a covalant bond (a) 3 (b) 2 (c) 1 (d) 4
109. The difference in the properties of isomer is due to (a) Molecular theory (b) Binding force (c) Different mode of combination (d) Different separation.
110. Which of the following is used in the dehydration of ethanol to give ethane (a). Dilute HNO ₃ (b)
Conc. HNO ₃ (c) Cone. H ₂ SO ₄ (d) H ₂ SO ₄
111. Alkene undergo the following except (a) Addition (b) Substitution (c) Hydration (d)
Combustion (a) Addition (b) Substitution
112. The chlorine atom and chloride atom has the same (a) no of proton (b) No of electron (c)
Atomic number (d) mass no
113. The most reactive element are found in (a) Group IV (b) Group VII (c) Group IA (d) Group
III
114. All these are classification of Alkanol except (a) Dihydric Alkanol (b) Trihydric alkanol (c)
Tetrahydric alkanol (d) Polyhydric Alkanol
115. Which of SP hybridization has lower percentage in (a) SP ³ (b) SP ² (c) All of the above (d) SP
116. CaCO ₃ exist in (a) Snail (b) Limestone (c) Wood (d) Sand
117. Alkene does not undergo which of the following (a) Polymerization (b) Combustion (c)
Substitution (d) Addition
118. Isomerization of alkane occur in the presence of
119. Reduction of ethanal with H ₂ /Ni give
120. The reactivity of group I metals down the group.
121. The bond angle of SP ² hybridization is (a) Alkyne 180° (b) Alkene 120° (c) Alkane 109.5°
281
122. Ethanoic acid is also known as
Answer: Acetic acid
123. CH ₃ CH ₂ CH CHC ≡ CCH ₃ . The structure of the above structure is
Answer: Hept 3-ene 5-ync 124. The reaction between nitrogen and group II elements yields compound of the type (a) MN ₃ (b) MN
COLAN AL CALMAN.
125 All and appeally (a) SP (b) S ² P (c) SP* (d). SP*
to Lawrida of (8) Copper (0) Min (1)
126. Milk of Magnesia is hydroxide of (a) 127. Oxidation of a Secondary alcohol with K ₂ Cr ₂ O ₇ in the presence of an acid yields (a) Aldehyde (b)

Ketone (c) Alcohol (d) Alkene

128. Hypo chloride are used (a) As an Oxidant fire ware and methes (b) In domestic bleaches (c) For etching glasses (d) for chlorinating drinking water 129. The product of halogenations of 4-methylpent-1-ol with HCl (a) 4-methyl-1-chlorobutane (b) 4chloro-2-methylpentene (e) 3-chloro-4-methylpentene (d) 2-chloro-4-methylpentene. 130. Hydrogen halides have the general formular (a) HF (b) HX (c) HCl (d) HBr 131. What is the chemical Formula for Astatine (a) As (b) Tn (c) At (d) St 132. Give the structural formula of hept -4 - ene -2 - yne 133. What type of hybridization is present in H-C-H of CH4 134. What type of hybridization is present in Alkene. 135. Organic compounds includes 136. An Organic dibasic acid contain 17.38% C, 1.45% H and 57.17% Brolf the vapour density is 16.6. Calculate the molecular formula of the acid. 137. The bond angle of C2H4 is (a) 180° (b). 120° (c) 109° 28° (d) 80° 138. Which Hybridization exhibit one signal bond and one pi bond? (a) S2p (b) Sp3 (c)Sp2 (d)sp 139. What is the hybridization of sp3 (a)1,2 (b)1,1 (c)-2,1 140. Alkane burn in air to give ____ and (a) CO and H2O (b) CO2 & O2 (c) H2O & O2 (d) O2 & H₂O (a) Olefin (b) Phenol (c) Mash gas (d) Behave 141. Methane is often called 142. Ammonium ion is an example of which bond (a) Covalent bond (b)Ionic bond (c)Metallic bond (d)Dative bond 143. 2-methylbutan-2-ol and 2-methylbutan-1-ol are example of isomerism (a) Positional (b)Optical isomerism (c)Structural isomerism (d)Geometrical isomerism 144. A drug with an empirical formula/of C27H35N6P has endorsed by WHO for Covid-19, Find the mass of carbon and phosphorus in the drug. 145. A compound with an empirical formula C24H37O7 has molecular mass of 875.106. Find the molecular formula. 146. A compound contains 84.51% carbon, 9.86%, 5.63% Oxygen, find the Empirical and molecular formula. 147. Name the compound CH₃CH₂CH=CHC≡CCH3 148. For which of the following pairs of compounds can Tollens' test be performed (a) CH₃COCH₃ and CH3CO2CH3 (b) CH3COCH3 and C2H3COCH3 (c) CH3CHO and CH3COCH3 (d) CH3CO3H and CH3CO2CH3 149. _____ are ionic compound (a) Br2 (b) AgI (c) HCI (d)None of the above

What is the IUPAC of

150.

$$H - C - C - C = C \equiv C - C - H$$
 $H - H - H - H$
 $H - H - H$

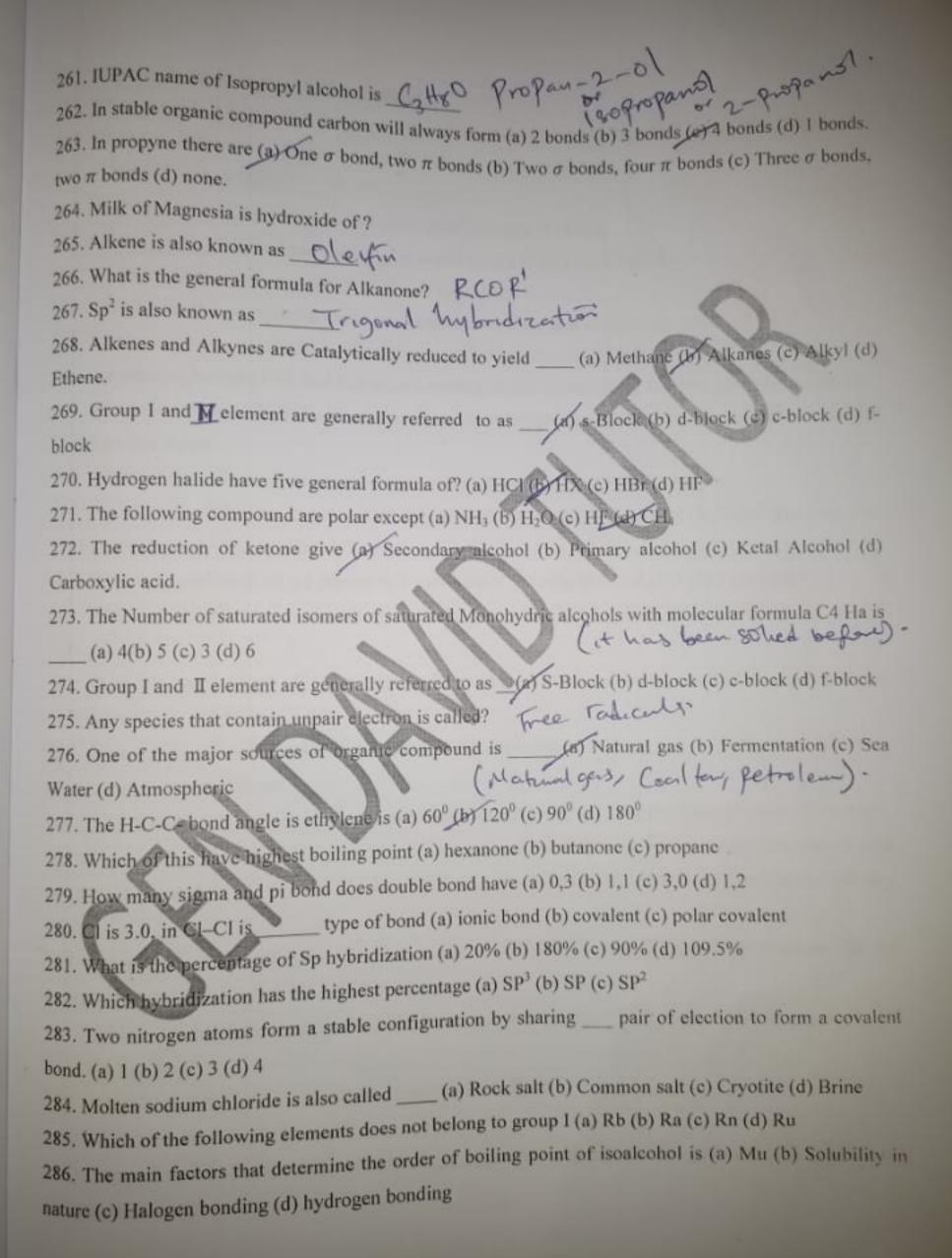
- (a) Hept, 4-en-2-yne (b) Hept-4, en-2-yne (c) Hept-3-en-2-yne (d) hept-3, en-2yne
- 151. How many c-atom are presence in 2-methylpentane (a) 2 (b)5 (c) 6 (d) 7
- 152. Which of the following contain 1 sigma and 1 pie bond (a)Alkane (b)Alkanol (c) Alkane(d)alkene
- 153. Which of the following contain 1 sigma and 2 pie (a)Alkyne (b)Alkanol (c)Alkano (d)Alkene
- 154. Akali metal belongs to _____ (a)Group I (b)Group II (c)Group III (d)Group IV (e) Group V
- 155. Which of the following contain 1 sigma (a)Alkano (b)Alkyne (c)Keton (d)Alkene
- 156. Which of the following compound is SP2 Hybridization (a)Alkane (b)Alkanol (c)Alkye (d)Alkene
- 157. What is the molecular formula of Astatine (a)Tn (b)As (c)AT (d)AN
- 158. Which orbital overlap to create H-C bond and CH. (a) SP3-SP3 (b)SP2-SP3 (c)S-P (d)S-P2
- 159. The order of stability of carbon ion is (a) Primary > Secondary > Tertiary
- (b)Secondary> Tertiary> Primary (c)Tertiary> Secondary> Primary (d)Tertiary> Primary> Secondary
- 160. The bond angle between C₂H₄ is (a)180° (b)120° (c)170° (d)170°
- 161. Single bond has _____ sigma and ____ pie (a)1,0 (b)2,2 (c)1,1 (d)2,1
- 162. Double bond has _____ sigma and ___ pie (a)2,2 (b)1,1 (c)0,2 (d)1,0
- 163. Lutein is a powerful antioxidant and anticancer carotenoid found in high quantities in green leafy vegetable and is made up of 84.51% Carbon, 9.86% Hydrogen and 5.63% oxygen. If the molecular mass
- of lutein is 568.871. Its empirical and molecular formula are. (a)C20H26O and C40H50O2 respectively (b)
- C40H56 and C20H20O1 respectively (c) C5H7 and C40H56 respectively (d) C40H56 and C5H22 respectively
- 164. Which of the following group 2 element does not react with oxygen? (a) Bromine (b) Beryllium (c)Calcium (d) Magnesium
- 165. Give the name of the structure below H₂C=C(CH₃)CH₂C(CH₃)₃ (a) 2,4,4-trimethylpent-1-ene (b) Octane (c) 2,2,4-trimethyl pent-5- ene (d) 2,4,2, trimethylpentane
- 167. Group VII & VIII belong to which orbital? (a)S-orbital (b)P-orbital (c) d-orbital (d) f-orbital
- 168. 3- methylpentan-3-ol and 3-methypentan-2-ol belong to ___ & ___ alcohol (a)Tertiary, Tertiary
- (b)Tertiary, Secondary (c)Primary, Secondary (d)Secondary, tertiary
- 169. Ethanol will react with Hydrogen molecule to give _____ reaction.
- 170. LiO2 is prepared industrially by the reaction of LiOH.H2O (a)Oxidation (b)Reduction

171. leads to covalent also
ion leads to covalent character in ionic bonding (a) Electronegative of ion (b)Polymerization of
172. NH ₃ BF ₃ molecule is
172. NH ₃ BF ₃ molecule is
173. Molten Sodium Chloride is also called (a)Brine (b)Electrolysis (c)Bromine 174. How many sigma and pi bond are in triple bond (a)1,2 (b)0,3 (c)2,1 (d)3,0 175. How many isomers are present in C. 11
175. How many isomers are present in C ₄ H ₈ (a) 6 (b)4 (c)9 (d)8
176. Hydrazine will result from the reaction act.
176. Hydrazine will result from the reaction of hydrazine with (a)Phenol (b)Alcohol (c)Acid (d)Aldehyde 177. Any species that contain an unparsed electron is called (a)Free radical (b)anion (e)atom 178. have the highest persent.
178 have the highest percentage of character (a)SP (b)SP ² (c)SP ³
179. Covalent character (a)decreases down the group (b)increase down the group (c)decreases across the
period (d)decreases across the group
180. In the group VIII, the first ionization energy is (a)All of the above (b)decreases down the group
(c)increase down the group (d)remain constant
181. Which of the following is the least alcohol soluble in water (a) CH2CH2OH (b) CH3CH2CH2OH (c)
CH ₃ OH (d) CH ₃ CH ₂ CH ₂ OH
182. How many isomer has C ₄ H ₉ O (a)3 (b)4 (c)5 (d)6
183. Organic acid are reduce to (a) T alkanol (b) Polyhydric alknole (c) 2° alknol(d) 3° alkanol
184. Disproportional reaction do not occur in which of the following halogen (a)lodine (b)beryllium
(c)flourine (d)chlorine
185. In the reaction CH ₃ H ₄ + H ₂ O - CH ₃ COCH ₃ in the presence of(a) H ₂ SO ₃ /HgSO ₃ (b)HCL/
HgSO ₄ (c)H ₂ SO ₄ /NaOH (d) H ₂ SO ₄ /HgSO ₄
186. Which one undergo reduction easily. (a)As (b)I (c)Cl (d)F
187 is used by athletes for firm/grip (a)MgC0 ₃ (b)MgO (c)MgCl ₂ (d) Mg(OH) ₂
188. dipole is formed from the distortion of electron cloud (a) induced (b)instantaneous
(c)permanent (d)dipole
189. There are possible isomers for C ₄ H ₈ (a)5 (b)4 (c)6 (d)3
190. How many earbons are in one molecule of 2-methylpentane ? (a)5 (b)6 (c)3 (d)4
191. is used for the etching of glasses (a)HF (b)KrF ₂ (c) Cl ₂ (d)PVC
192. A strong non-dimensional electrostatics force of attraction between positive charge ion is known as
(a)van der waal (b)covalent (c)ionic (d)hydrogen
193. Which type of bond will 1S22S2P2 and 1S22S2P5 form ? (a)ionic (b)covalent (c)electrovalent
(d)hydrogen
194. Definition of Polarization?
195. CS2O has which colour? (a)Pure white (b)Yellowish white (c)Orange (d)

196. Pent-1-ene to Pent-2-ene istype of reaction.
States of Value
198. Write the IUPAC name of CHCCH2=COOH
199. How many mole of oxygen react with 1
(d)3 moles (d)3 moles (d)5 moles (e)4 moles
200. The reaction between C ₂ H ₂ and HD ₂ :
201. The melting point of an aldehyde and ketone to
202. Isomerization of alkene occur in presence of
203. A pi bond is the result from the
204. 3-methylpentan-3-ol and 3 most . 1
205. The H-C-H bond angles in CH ₄ is
206. Which of the following compounds is an example of halide? (a)Cl ₂ (b)HCN (c)NaH (d)AlCl ₂
207. The two clean structure of an outlined texts are (a)Therma and pheme (b)major and sub-divisions (c)
Introduction and body (d)the tittle and body of the text.
208. Alkene undergo all of the following accept (a)substitution (b)addition (c)polymerization
209. The orbital in SP hybridization is (a) tetrahedrally (b) linearly (c) trigonally (d)horizontally
210. Compound like sliver hydrides and zinc sulphide show covalent character in ionic bonding (a)
polarization of ions (b) strong force (c) weak force (d) Intermolecular force
211. Find the percentage water of crystallization of (C27H35N6O8P) Carbon and phosphorus (a)53.82% and
5.14% (b) 50.00% and 2.00% (c)55.82% and 5.15% (d)none of the above
212. The general formula of ALKYL is
213. These are types of isomerism except (a) Structural isomerism (b) Positional (c Dipole (d) Functional
214. What does an induced dipole mean?
215. Breaking down as larger molecule into smaller molecule of alkane to yield alkane ?
216. How many structural isomerism are possible for C ₄ H ₉ Br (a)4 (b)2 (c)3 (d)5
217. is used for etching of glasses (a)KF ₂ (b)HF (c)Cl ₂ (d)PIC
218. The noble gas are isolated by (a)fractional (b)electrolysis (c)radioactivity
219. Which of these group one metal oxides has an orange colorization (a)Li ₂ (b)Na ₂ O (c)Rb ₂ O (d)CS ₂ O
220. The carbonyl group in aldehydes is (a)CHO (b) CO (c)C-O (d)C=O
221. The actual composition of molecule of the compound that is represent the exact mole of atoms is
(a)gravimetric formula (b)empirical formula (c)molecular formula (d)structural formula
222. What is the mole needed in oxygen for the combustion of benzene (a)5 moles (b)6.5 moles (c)5
moles (d)6 moles

223. One of the following aliphatic aldehydes dose not react with ammonia (a)ethanal (b)methanal (c)butanal (d)acetal
224 Group VIII elements
constant (d)all of the above (a)increase down the group (b)decrease down the group (c)remaining
225. Hectaldehyde also has the same name as (a)ethanal (b)methanal (c) buten-2-one(d)alkanone
226. The following properties of the halogens increases on descending the group except (a)atomic radii
(b)melting point (e)oxidizing ability
227. The cleavage of a covalent bond such that only one of the fragment retain both electrons from the
bond is (a) Heterolysis (b) Homolysis (c) Catalysis (d) Addition
228. The compounds CH3CH2OCH3 and CH3OCH2CH2CH3 (a) enantiomer (b) metamers
(e)conformational isomers (d)optical isomers
229. Alkanol react with Alkanoic acid to form
230. Reduction of organic acid gives (a)see alcohol (b)poly/alcohol (c)primary alcohol (d)tertiary alcohol
231. The following are true of Beo except (a)good conductor of heat (b)high reactivity (c)high soluble in
alkali solution
232. Transition metals have what type of bond between atom (a) metallic(b)ionic (c)covalent (d)dative
233. Ligands that can form more than 2 bonds with a metals are called (a) Polydentate (b) Tridentate (c)
Tetradentate (d) None
234. Which of the following has the highest boiling point (a)propane (b)pentane (c)methane (d)ethane
235. The simplest formula of a compound with express in percentage composition is (a)Empirical formula
(b)Molecular formula (c)Empirical (d)chemical formula
236. IUPAC name of Isopropylalcohol is (a)Propan-2-ol (b)2-methylpropan-2-ol (c)2-
methyl -ol (d) propan-1-ol
237. How many mole of exvigen will be needed for complete combustion of butane (a)5 (b)5 (c)6 (d)6.9
238. The electronic configuration of Bromine is (a) [Ar]3d ¹⁰ 4S ² 5P ⁵ (b) [Ne] 4f ⁴ 5d ¹⁰ 5P ⁵ (c) [He
3d ¹⁶ 4S ² 4p ³ (d) [Xe] 3d ¹⁰ 4d ³ 5S ² .
239. The type of hydrogen bonding formed between different molecules is
240. When group 1 element formed ionic hydride the hydrogen is present as
241. How many shells are in the nucleus of calcium
and with HCI it gives what equation?
(a) thicker (b)thinner sociations is
244 The general formula of alkyne family is (a) Cartan (a) Cartan
245. Alkanes have bond (a)single (b)double (c) triple (d) half

246. The general molecular formula of aldehyde and ketone is ______ (a) C_nH_{2n}O (b) C_nH_{2n} (c) C.H. R (d)C, H,+O 247. The following are the example of group I metal halides except (a)NaCl (b)KBr (c)NaOH (d)LiF 248. The IUPAC name of Isopropyl alcohol is (a) Propan-2-ol (b) propan-1-ol (c) 2-methylpropan -1-ol (d) 2-methylpropane 249. How many sigma and pi bond present in a triple bond (a)0,3 (b)1,2 (c)3,0 (d)2.1 250. If F has electronegativity value of 4.0 and Lithium has electronegativity of 1.0. What type of bond is in Li-F is(a) ionic (b) covalent (c) dative 251. How many lone pair electron are present in NH₃ (a)3 (b)1 (c)2 (d)6 252. 2-methylbutan-2-ol & 2-methylbutan-1-ol are examples of (a)positional (b)geometric 253. The oxidation no of xenon in its compounds are (a)+2,+3,+5, +8(b) +2+4,+6,+8 What is the name of these alkanol. CHy OH C - C - C - C-H and H-C CH_{3oq} (a)Tertiary& tertiary (b)Primary & Secondary 255. What is the molecular formula and empirical formula if its molecular mass is 568.871 256. The electronic configuration of Bromine is (a) Ar:4S23d104p5 257. The above structure is an example of _____ alkanol (a) Tertiary (b) Primary (c) Secondary (d) Polytechnic 258. An organic liquid contain 12.8% C, 2.1% H and 85.5% Br. Calculate empirical formula. (a) CHO. (b) CH2Br (c) CHBr2 (d) C2H2Br. 259. Determine the empirical formula of a compound elemental 40% C, 6072% H and 53.29% O (a) H₂CO (b) H₂OC (C) CH₂O (d) None. 260. Oxidation state of Xenon are



287. Reaction between C ₂ H ₂ and Hbr is called?
280. Will Stoup is Alkali metals in at
288. What group is Alkali metals in the periodic table (a) Group I (b) Group II (c) Group IV (d) Group O 289. CS ₂ O has which colour (a) pure white (b) yellows white (c) orange
290. Pi bond is formed from
291. Be is used on making nozzle to fuel
292. Sp ² has sigma bond and pi bond? (a) 1,2 (b) 2,1 (c) 1,1 (d) 0,1 293. Which of these is not an acid (a) UF (b) 1,2 (c) 1,1 (d) 0,1
293. Which of these is not an acid (a) HF (b) HCI (c) HBr
294. Fluorine in all its compound has an assigned oxidation number of (a) 17 (b) -1 (c) +2 (d) +6
295. What group is the electronic configuration of 1s ² 2s ² 2p ⁶ 3s ² (a) II (b) III (c) IV (d) V
296. The reaction between CH ₂ and Hbr is (a) Substitution (b) Oxidation (c) Addition (d) Polymerization
297. Alkane undergo the following reaction except (a) Hydrogenation (b) Combustion (c) Substitution (d)
Instantaneous dipole
298. Which of the following is an ionic compound (a) Br ₂ (b) CCl ₁ (c) HCl (d) All (d)
299. Which of the following is not a secondary alcohol (a) 3-methylpentan-2-ol (b) 2-methylpentan-3-ol
(c) 3-methylpentan- 3-ol (d) Hexan-3-ol
300. How many carbon atom are present in 1 molecule of 2-methylpentane (a) 5 (b) 6 (c) 4 (d) 3
301. Which of the following could exhibit optical isomers. (a) C ₂ H ₆ (b) CH ₂ CIF (c) CH ₃ [CCI]BrCIIO (d)
C ₅ H ₁₂
302. The triple bond consist ofbonds (a) Three pi (b) Two sigma and one pi (c) One sigma and one
pi (d) One sigma and two pi
303. A secondary alkanol reacts with acidified KMnO ₄ solution to form a(a) Alkene (b) Alkanone
(c) Alkanoic acid (d) Alkanal (d) Alkanal (e) Four (b) Three (c) four (d) No idea
304. Trihydric phenol contains Molecule of hydroxil group (a) Four (b) Three (c) four (d) No idea
305. Ketones can be prepared in one step from which of the following processes (a) Reaction of acid
305. Ketones can be prepared in one step halide with alcohol (b) Hydrolysis of esters (c) Oxidation of Secondary alcohol (d) Oxidation of primary halide with alcohol (b) Hydrolysis of esters (c) Oxidation of Secondary alcohol (d) Oxidation of primary
alcohol 306. What type of Reaction is CH ₃ CH ₃ + Cl ₂ → CH ₃ CH ₂ Cl + HCl? (a) Saponification (b) An
an Addition
esterification (c) Substitution (d) Addition (d) Addition (esterification (c) Substitution (d) Addition (esterification (ester
CHICOMPACHO
308. Butanoic acid & Ethyl ethanoate are isomers? False/True
309 What is the formula for halides?
310. Propanal and Propanone are example of isomer (a) Optical (b) geometric (d) function (c
Positional

311. What is the formula for alkyl halide (a) MX (b) MX ₂ (c) MX ₃ (d) M ₂ X ₂ 312. Which of the following does not form and a second seco
The state of the s
C _n H _{2n-2} O
313. Which of the following has the highest boiling point? (a) propane (b) 2-hexane (c) 2-pentanone (d) Butanone.
314. Main factor that determine the isomeric order of boiling point is alcohol loss? (a) Molecular weight
(c) Harogen boiling point (d) Hydrogen bailing point
of isomers is due to
316. When ketone react with Grignard reagent and hydrolyses, the product is
317. Which action best account for the solubility of Aldehyde?
318. The reduction of organic acid is (a) Primary alcohol (b) Secondary alcohol (c) Ternary alcohol (d)
Polyhydric.
319. Reduction of aldehyde gives (a) Primary alcohol (b) Secondary alcohol (c) Tertiary alcohol (d) None.
320. Reaction between C ₂ H ₂ and HBr is(a) Polymerization (b) Addition (c) Substitution (d)
Oxidation
321. Ketone is reduced to (a) Tertiary alcohol (b) Secondary alcohol (c) Primary Alcohol (d)
Monohydric alcohol
322. Which of the following is not classes of alcohol (a) Monohydric (b) Dihydric (c) Trihydric (d)
Tetrahydric
323. Alkene are generally hybridization (a) SP ³ (b) SP ² (c) SP (d) S
324 Most reactive metal in periodic table is (a) Ca (b) Li (c) Fr (d) Na
225 Which of the following is an ionic compound (a) AlF ₃ (b) CCI ₄ (c) HCI (d) Br ₂
the outmost shell as Mg (a) one (b) three (c) four (d) two
. Gut and O is found in contain 32 percent carbon and a percent
leaular formilla (a) Calla C4 (b) C21 14 C4 (c) C41 16 C4
328. Polar molecules such as HCl have dipole molecules such as HCl have
induced (d) Permanent. 329. The element with configuration is 1S ² 2S ² 2P ² 3S ² belong to group (a) 3 (b) 1 (c) 2 (d) 4
329. The element with configuration is 18-28 2F 35 details
329. The element with configuration is 15 25 2. 330. Alcohol have higher boiling point that is expected from their molecular weight
330. Alcohol have higher boiling point that is expected from the separation of the s
(d) 2-methylpropan-2-ol. (a) Temporary (b) Instanteneous (c)
332. Polar Molecule such as HCI have dipoles molecule. (a) remporary (b) meantened to
Induced (d) Permanent

333. What IUPAC name of Isopropyl Iacohol
334 are carbonyl group
335. Alkenes are generally (a) SP ² bubble to the second
as (a) Alkali (b) Halana a a a a a a
and acid (a0 HI (b) HCI (c) HP= (d) HE
338. Which of these react to give water and Alkali (a) I (b) Cl (c) Br (d) F
339. Butan-1-ene and Butan-2-ol are example of (a) Positional isomerism (b) Chain isomerism (c) - Functional group Isomerism
340. Group II of the periodic table is also known as (a) Alkali metals (b) Halogen (c) Alkaline earth metal
(d0 Noble gas
341. How many structure isomer is present in C ₄ H ₉ OH (a) 6 (b) 4 (c) 5 (d) 3
342. In group VIII the first Ionization energy (a) Remain constant (b) All of the above (c) decreased down
the group (d) increased down the group
343. Aldehydes and Ketones oxidized to give and
344. Another name for Alkene is (a) Olefin (b) Paraffin (c) ionic (d) Covalant
345. Chemical bonds that involves Transfer of one or more electrons is called (a) Covalant (b) Ionic (c)
Dative (d) Structural formula
346. How many mole of oxygen will be needed for complete combustion of butanc.(a) 5 (b) 5 (c) 6 (d)
0.5
347 is an example of a molecular with a triple bond (a) N ₂ (b) CO ₃ (c) C ₂ H ₄ (d) NH ₃
347 is an example of a inciced and seed at the H-F bond is very (a) Strong (b) Weak (c) Polar (d) All of the
above 349. Molten Sodium Chloride is also called (a) Common salt (b) Crystite (c) Brimp (d) Rock salt (c) None of the above (b) Accepting an electron (c)
349. Molten Sodium Chloride is also cance (a) Common of the above (b) Accepting an electron (c) 350. The group 7 element form halide ions by (a) None of the above (b) Accepting an electron (c)
350. The group 7 element form hande lons by (a)
Donating an electron (d) Donating lone pair of election.