Chemistry Fsc Part 2 Online Test

Sr	Questions	Answers Choice
1	Which of the following element is not present in all proteins	A. Carbon B. hydrogen C. Nitrogen D. Sulphur
2	Cholesterol is an important precursor in the biosynthesis of	A. Sex harmonies B. Adrenal hormones C. Vitamin D D. All of these
3	silicones are	A. Some salts of sodium B. Allotropes of SI C. Inorganic polymers D. Coloured compounds of Si
4	The element cesium bears resemblance with	A. Ca B. Cr C. Both of the above D. None of the above
5	Zwitter ion is	A. Dipolar ion B. Amino acid with two amino groups C. Amino acid with two carboxylic acid group D. A synthetic amino acid
6	The state of hybridization of carbon atom in Ethyne	A. sp B. sp² C. dsp² D. sp³
7	In ethene molecule how many carbon orbitals are equivalent and degenerate in nature.	A. 3 B. 4 C. 5 D. 6
8	Vinyl acetlylene reach with HCl to form	A. Polycetylene B. Benzene C. Chloroprene D. Divinylacetylene
9	Which element has lowest melting point	A. Beryllium B. Magnesium C. Calcium D. Barium
10	Malonic acid is	A. Aromatic monocarboxylic acid B. Aromatic dicarboxylic acid C. Aliphatic monocarboxylic acid D. Aliphatic di carboxylic acid
11	Which one of the following is a condensation polymer	A. Polystyrene B. Polyester C. Polyethene D. Nylon 6,6
12	Select from the following the one which is Alcohol	A. CH₃CH₂OH B. CH₃OCH₃ C. CH₃COOH D. CH₃.CH₂.Br
13	PCl3 reacts with water to form	A. PH3 B. POCl3 C. H3PO4 D. H3PO5
14	Which compound is the more reactive	A. Benzene B. Ethene C. Ethane D. Ethyne
15	Which acid is used in the manufacture of synthetic fiber	A. Formic acid B. Oxalic acid C. Carbonic acid D. Acetic acid

16	Which of these polymers is an addition polymer	A. Nylon 6, 6 B. polystyrene C. Terylene D. epoxy resin
17	The flavor of octylacetate is	A. Orange B. Apricot C. Banana D. Jasmine
18	What is clinker	A. Roasted calcareous material B. Roasted argillaceous material C. Roasted calcareous and argillaceous material D. Roasted gyposum
19	Which raw material is used for preparation of bleaching powder.	A. Cl2 and H2O B. Cl2 and Lime C. Cl2 and HOCl D. HCl and Lime
20	Which is not polymer	A. Diamond B. Starch C. Sand D. Nucleotide
21	Oxidation of NO in air produces	A. N₂O B. N₂O₃ C. N₂O₄ D. N₂O₅
22	Absolute alcohol can be obtained from rectified spirit by	A. By adding sodium metal B. By extraction C. By predistillation in the presence of CaO D. Not possible because of azeotropic mixture
23	Out of the elements of group VIA the highest melting and boiling points is shown by the element.	A. Te B. Se C. S D. Po
24	Amongst the following, the compound that can be most readily sulphonated is	A. toluene B. benzene C. nitrobenzene D. chlorobenzene
25	Cannizzaro's reaction is not given by	A. Formaldehyde B. Acetaldehyde C. Benzaldehyde D. Trithylacetaldehyde
26	Acetylene polymerized in the presence of ammonium chloride and cuprous chloride ot form.	A. Benzene B. PVC C. Di vieiyl acetylene D. Polyethene
27	The brown gas formed, when metal reduce HNO_3	A. NO B. NO₂ C. N₂O₃ D. N₂O₅
28	Out of all the elements of groups VI-A the highest melting and boiling points is shown by the element	A. Te B. Se C. S D. Po
29	The brown gas formed when metal reduces HNO_3	A. N₂O₅ B. N₂O₃ C. NO₂ D. NO
30	In which group of periodic table is the element which has atomic number 14.	A. II B. IV C. III D. VI
31	The percentage of clay and liem stone in cement is in the ratio of.	A. 1 : 1 B. 1 :2 C. 1:3 D. 3:1
32	An sp3- hybrid orbital contains.	A. 25% s- characters B. 50% s- characters C. 75% s- characters D. 100% s - characters
33	Cyanogen chloride reacts with ethyl magnesium bromide to	A. CH₃CH₂Cl B. CH₃CH₂Br C. C₄H₁₀⁺

	give	D. CH₃CH₂CN
34	Which one of the following is not amino acid.	A. Alanine B. Glycine C. Aspartic acid D. Aniline
35	Micro-nutrient is required in quantity for plant growth ranging from	A. 4-40 gm B. 6-200 gm C. 6-200 kg D. 4-40 kg
36	Which one of the following compounds is the isomer of ethyl alcohol.	A. CH3OH B. CH4OCH3 C. CH5-CH(OH)CH3 D. CH3OC2H5
37	Which one has yellow or orange cyrstalline ppt	A. Acetone hydrazone B. 2, 4 DNPH C. Ethanal oxime D. Bisulphite addition product
38	Potassium fertilizers are especially useful for	A. Tobacco B. Coffee C. Potato D. All of these
39	What products is formed when ethyl bromide reacts with magnesium to form Grignard's reagent.	A. Pyridine B. Anhydrous ether C. Ethyl alcohol D. Carbon tetrachloride
40	Pulp is washed to remove lignin from it. Due to the presence of lignin in pulp paper becomes.	A. Soft B. Brittle C. Acidic D. Colourless
41	What type of reaction occurs between ethene and hydrogen.	A. Addition B. Substitution C. Oxidation D. Dehydration
42	Out of the elements of group VA, the highest energy is possessed by	A. N B. P C. Sb D. Bi
43	Total number of d-block elements are	A. 10 B. 20 C. 30 D. 40
44	An element that has a high ionization energy and tends to be chemically inactive would most likely to be	A. An alkali metal B. A transition element C. A noble gas D. A halogen
45	Which amino acid is present in cheese	A. Glycine B. Alanine C. Tyrosine D. Valine
46	In group V-A elements the most electronegative elements is	A. Sb B. N C. P D. As
47	NH4NO3 on heating at 200 ^{o}C changes to	A. N2O B. NO C. NO2 D. N2O4
48	---------- metal is used in the Thermite process because of its reactivity	A. Tron B. Copper C. Aluminium D. Zinc
49	Which one is alcohol in the following	A. CH₃.CH₂.OH B. CH₃.O.CH₃ C. CH₃COOH D. CH₃.CH₂.Br
50	Which one of the following oxide is brown in colour.	A. NO B. NO2 C. N2O D. N2O3
	Which one of the following	A. Glucose

51	carbohydrates give blue colour with iodine.	B. fructose C. Sucrose D. Starch
52	Which compound show hydrogen bonding	A. C₂H₆ B. C₂H₅Cl C. CH₃OCH₃ D. C₂H₅OH
53	In which block of periodic table non metals are present.	A. s B. p C. d D. f
54	Formula of choloroform is	A. CH₃Cl B. CCl₄ C. CH₂Cl₂ D. CHCl₃
55	Element of which group reacts with hydrogen and form ionic hydrides.	A. II A B. IV A C. V A D. VI A
56	The region of earth capable of supposing life is called.	A. Atmosphere B. Bisphere C. Dithosphere D. Hydrosphere
57	Each of the following is true for white and red phosphorus except one.	A. Both are soluble in CCl4 B. Both can be oxidized by heating in air C. Both consists of same kind of atoms D. Both can be converted into each other
58	The colloidal particles in raw water can be removed by	A. Coagulation B. Aeration C. Chlorination D. Hydration
59	Which one is symmetrical ketone	A. Acetone B. Methyl ethyl ketone C. Methyl n propyl ketone D. 2- pentonone
60	The oxidation of NO in air produces	A. N₂O₃ B. NO₂ C. N₂O₃ D. N₂O₄
61	Which one of the following has lowest first ionization energy.	A. Li B. Na C. Rb D. Cs
62	The word paper is derived from the name of which reed plant.	A. Rose B. Sun flower C. Papyrus D. Water Hyacinth
63	Which one of the following does not react with dilute sulphuric acid.	A. Mg (OH)2 B. Mg C. MgO D. Mg(NO3)2
64	Phenol is also known as	A. Citric acid B. Carbonic acid C. Carbolic acid D. Maleic acid
65	A cyanohydrin is formed by the reaction of	A. Alcohol and HCN B. Ketone and NH3 C. Aldehyde and NH2OH D. Aldehyde and HCN
66	The general formula for Alkene having one double bond is	A. C_nH_{2n+1} B. C_nH_{2n} C. C_nH_{2n-2} D. C_nH_{2n+2}
67	Group VI B of transition elements contains.	A. Zn, Cd, Hg B. Fe, Ru,Os C. Cr, Mo, W D. Mn, Te, Re
68	Which of the follow8ing is not a fatty acid.	A. Propanoic acid B. Acetic acid C. Phthalic acid D. Butanoci acid

69	Which woody raw material is used for the manufacture of paper pulp	A. Cotton B. Biogases C. Rice straw D. Poplar
70	The strength of binding energy of transition elements depend upon	A. number of electron pairs B. number of unpaired electron pairs C. number of neutrons D. number of protons
71	When concentrated H2SO4 and solid sodium chloride react together at room temperature the product are.	A. Two salts only B. A salt and a base C. A salt and an acid D. A salt and water
72	Which halogen will react spontaneously with $Au_{(s)}$to produce Au^{3+}	A. Br₂ B. F₂ C. I₂ D. Cl₂
73	The total number of translation elements is	A. 10 B. 14 C. 40 D. 65
74	Micronutrients are required in quantity ranging from	A. 4g-40g B. 6g-200g C. 6kg-200kg D. 4kg-40kg
75	f-block elements are also called	A. non typical transition elements B. outer transition elements C. normal transition elements D. inner transition elements
76	The composition mixture of clay and lime stone in the raw material.	A. 75% lime stone and 25% clay B. 25% lime stone and 75% clay C. 15% lime stone and 55% clay D. 55% lime stone and 15% clay
77	Formula of marsh gas is	A. CH₄ B. C₂H₆ C. C₃H₆ D. C₄H₁₀
78	Ranney nickel is prepared by reacting dilute NaOH solution with.	A. Nickel B. Brass C. Nickel and aluminum alloy D. Nickel oxide
79	The most ionic is	A. HF B. HCl C. HBr D. HI
80	Which of the following is an addition polymer	A. Polyester B. Polystyrene C. Nylon 6,6 D. Terylene
81	The conversion of ethene to ethanol is an example of.	A. Hydration B. Dehydration C. Neutralization D. Esterification
82	To which class of organic compounds soap belongs.	A. Ether B. Ketones C. Aldehyde D. Salt of an organic acid
83	Ammonium nitrate fertilizers is not used for which crop	A. Cotton B. Wheat C. Sugar cane D. Paddy rice
84	Which of the following is non-typical transition element	A. Cr B. Mn C. Zn D. Fel
85	The oxides of metal sare generally	A. Acidic B. Basic C. Neutral D. Amphoteric
86	Which one is not electrophile	A. BF3 B. SO3 C. AlCl3 D. NH3

87	Which hydroxide decomposes on heating.	A. LiOH B. NaOH C. KOH D. CaOH
88	For which mechanisms, the first step involved is the same	A. E₁and E₂ B. E₂and SN₂ C. E₁and E₂ D. E₁and SN₁
89	Methyl alcohol can be distinguished from ethyl alcohol by	A. Action of Cl2 B. Action of NH3 C. Dissolving in H2O D. NaOH +I2
90	Which chemicals used for detection of amino acids.	A. NaOH + I2 B. Phenyl hydrazine C. Ninhydrin D. Benedict's solution
91	Which substance is used to lower the melting point of NaCl in Down's cell	A. CaCO3 B. CaCl2 C. MgSO4 D. AlCl3
92	The chemist who synthesized urea from ammonium cyanate was	A. Berzelius B. Kolbe C. Wholer D. Lavoisier
93	Which is an aromatic compound	A. Anthracene B. Naphthalene C. Toluene D. All of the these
94	When acetylene is heated at 300 ^{o}C in copper tube, the product obtained is.	A. Benzene B. Alkyl benzene C. Ether D. Alcohol
95	The carbon atom of a carbonyl group is	A. sp hybridized B. sp²hybridized C. sp³hybridized D. none of these
96	Litharge is chemically	A. PbO B. PbO2 C. Pb3O4 D. Pb(CH3COO)2
97	Which is insoluble in water.	A. BeSO4 B. MgSO4 C. CaSO4 D. BaSO4
98	Which one is used for manufacture of fertilizers	A. Methane B. Ethane C. Ethene D. Ethyne
99	What is the function of Head box in paper making machine.	A. It reduces the thickness of paper B. It dry the paper C. It discharge teh pulp at the screen of fourdrinier table D. Web structure is consolidated
100	Which alkyne reacts with water and form aldehyde	A. Ethyne B. Propyne C. 1- Butyne D. 2- Butyne
101	Which of the following species is ortho and para director.	A. CHO B. SO3H C. NO2 D. Cl
102	An aldehyde compound can be reduced to alkane by	A. Wurtz reaction B. Grignard reaction C. Wolf Kishner reaction D. Kolbe's reaction
103	Formula of chloroform is	A. CH₃Cl B. CCl₄ C. CH₂Cl₂ D. CHCl₃
104	The shape of SiO2 IS	A. Tetrahedral B. Trigonal bipyramid C. Linear

		D. Cubic
105	To prevent corrosion, Iron pipes carrying drinking water are covered with zinc by	A. alley formation B. Electroplating C. Galvanizing D. Soldering
106	Which element shows highest oxidation state among these	A. Zn B. Fe C. Mn D. Sc
107	Secondary alkyl halides are those in which halogen atom is attached with a carbon atom which is further attached to.	A. One beta carbon B. Two beta carbon C. Three beta carbon D. Four beta carbon
108	Acid rain fist of all was observed by	A. Augus Smith B. Robert Hook C. Mosley D. Watson
109	Stainless steel is	A. Compound B. An element C. Mixture D. 100% pure iron
110	The anhydride of HClO4 is	A. ClO3 B. ClO2 C. Cl2O5 D. Cl2O7
111	Ecosystem is smaller units of.	A. Lithosphere B. Hydrosphere C. Atmosphere D. Biosphere
112	Fats are	A. Saturated glycerides B. Unsaturated glycerides C. Polyhydroxy ketose D. Polyhydroxy aldose
113	which one is not fossil fuel	A. Petroleum B. Natural gas C. Coal D. Alcohol
114	Which one is the heterocyclic compound of oxygen	A. Pyrridine B. Parrole C. Furan D. Thiophene
115	Which one of the following species is meta director if present at benzene ring.	A. -NO2 B. -Cl C. -CH3 D. -OH
116	The disease can be eradicated by using pesticides.	A. Malaria B. Yellow fever C. Sleeping sickness D. All of these
117	Which elements are needed for healthy growth of plants	A. N,S,P B. N,Ca,P C. N,P,K D. N,K,C
118	Formalin is a 40% solution of	A. CH₃CHO B. CH₃OH C. HCHO D. CH₃OCH
119	Which substance is water repellant and used in ceramic insulators.	A. Asbestos B. Lead compounds C. Silicon carbide D. silicones
120	Which class of elements shows law value of first ionization potential.	A. Alkali metals B. Alkaline earth metals C. Halogens D. Noble gases
121	Which is the least reactive of all the alkali metals	A. Li B. Na C. K D. Cs
	Who gave the law of Triads in	A. Dobereiner B. Mosely

122	Who gave the law of Triads in 1829?	B. Mosely C. Newland D. Mendeleev
123	The most electronegative element of group V-A is	A. N B. P C. Sb D. Bi
124	Which one of the following is not a heterocyclic compound.	A. Furan B. Thiophene C. Pyridine D. Aniline
125	Which one of following is used in cosmetics	A. Talc B. Asbestos C. Sodium sulphate D. Aluminium Sulphate
126	Vegetable oils are	A. Polyesters B. Glycerides of unsaturated fatty acids C. Essential oils D. Fatty acids
127	The anhydride of $HClO_4$is	A. ClO B. ClO₂ C. ClO₃ D. Cl₂O₇
128	Which substance is used to convert ethanol to ethyl chloride	A. SOCl2 B. PCl3 C. PCl5 D. All of these
129	Starch mixture of	A. Amylose and xylose B. Amylopectin and lactose C. Lactose and sucrose D. amylose and amylopectin
130	Element of which group are called non typical transition elements.	A. IB B. II B C. II A D. VII B
131	Mono saccharides contain carbon atoms.	A. 3 to 6 B. 3 to 7 C. 3 to 9 D. only six
132	Acetaldehyde can be prepared by the oxidation of.	A. Acetic acid B. Ethanol C. 1- Proponal D. Ethanonic acid
133	Which element when react with chlorine form polymeric halide.	A. Na B. Be C. Ba D. P
134	Fluorine is in group VII A of periodic table. Its chemistry will most closely resembles that of.	A. Argon B. Boron C. Iodine D. Sulphur
135	---------- does not belong to Alkaline-Earth metals	A. Be B. Ra C. Ba D. Rn
136	Acetylene reacts with ammoniacal cuprous chloride a red ppt is formed. This red ppt is of	A. Copper chlorite B. Coper chlorate C. Cupric oxide D. Copper acetylide
137	Which one of the following is the macronutrient for plants.	A. Boron B. Zinc C. Calcium D. Nitrogen
138	The resonating contributing structures of Benzene are	A. 2 B. 3 C. 5 D. 7
139	SN2 mechanism involves	A. 1st order kinetic B. 2nd order kinetic C. 3rd order kinetic D. Zero order kinetic
		A. Nickel sulphate

140	In purification of potable water the coagulant used is	A. Nickel sulphate B. Copper sulphate C. Barium sulphate D. Alum
141	Synthetic rubber is made by polymerization of.	A. Chloroform B. Acetylene C. Divinylactylene D. Chloroprene
142	Which one of the following compound is not of a polymer.	A. Starch B. Glucose C. Protein D. Nylon -6, 6
143	Which one of the followings is not ore of aluminium	A. Coruridum B. Bauxite C. Colemanite D. Kaolin
144	Which compound is formed, when CH_3OH reach with CH_3-Mg -Br	A. Ethane B. Methane C. Ethanol D. Acetone
145	Which of the following is a non typical transition element.	A. Cr B. Mn C. Zn D. Fe
146	Which one of the following elements has the largest second ionization energy.	A. O B. Na C. F D. Ne
147	Acetaldehyde react, with Grignard reagent to form	A. Primary alcohol B. Secondary alcohol C. Ter alcohol D. Carboxylic acids
148	Thickness of atmosphere is about how much kilometer above the surface of warth	A. 100 km B. 1000 km C. 10,000 km D. unlimited
149	Which of the following has highest M.P	A. Aluminium B. Silicon C. Phosphorus D. Sulphur
150	Ecosystem is smaller unit of	A. Lithosphere B. Hydroshpere C. Amosphere D. Biosphere
151	Which reaction is disproportionate reaction	A. Aldol Condensation B. Cannizzaros's reaction C. Haloform reactions D. Acid Catalyzed reactions
152	The pH range of the acid rain is	A. 7-6-5 B. 6.6-6 C. 6-5.6 D. less than 5
153	Keeping in view size of atoms ,which order is the correct one.	A. Mg > Sr B. Ba > Mg C. Lu > Ce D. Cl > I
154	Saturated hydrocarbon are also called.	A. Olefins B. Acetylenes C. Paraffins D. Alicyclic
155	Which one is perchloric acid	A. HClO B. HClO C. HClO₃ D. HClO₄
156	Ortho boric acid on strong beating gives.	A. Borax B. Boron oxide C. Metaboric acid D. Tetraboric acid
157	Aldehydes and ketones can be defected by	A. 2, 4 DNPH test B. Tollen's test C. Sodium Nitro prusside test D. Benedicts solution test

		D. Benedicts solution test
158	Group VI-B of transition elements contains	A. Zn, Cd, Hg B. Fe, Ru, Os C. Cr, Mo, W D. Mn, Te, Re
159	Kaolin is a mineral of	A. Carbon B. Magnesium C. Silicon D. Aluminium
160	The product of fermentation of sucrose is	A. Ethanol and H2O B. Ethanol and CO C. Ethanol and CO2 D. Glucose and CO2
161	Chlomyl chloride test is used for the confirmation of	A. Cl- B. CO3⁻² C. NO3- D. Cu2+
162	Which is called marsh gas	A. S2Cl2 B. SOCl2 C. CH4 D. CHBr3
163	Which one of the following can best be used to distinguish between samples of ethane and ethene	A. Aqueous BaCl2 B. Aqueous bromine C. Lime water D. Litmus solution
164	Which one is alcylic compound	A. Pyridine B. Toluene C. Ethyl Benzene D. Ethylcyclobutane
165	Which one is chlorous acid	A. HClO B. HClO₂ C. HClO₃ D. HClO₄
166	---------- is Alcohol in the following	A. CH₃.CH₂.OH B. CH₃.O.CH₃ C. CH₃COOH D. CH₃.CH₂.SH
167	The main pollutant of leather tanneries in the waste water is due the salt of.	A. Lead B. Chromium (VI) C. Copper D. Chromium (III)
168	Bleaching powder may be produced by passing chlorine over	A. calcium carbonate B. hydrated calcium sulphate C. calcium hydroxide D. magnesium hydroxide
169	Micro nutrients are required in quantity ranging from	A. 4 g - 40 g B. 6 g -200 g C. 6kg - 200 kg D. 4 kg - 40 kg
170	Laughing gas is chemically	A. NO B. NO₂ C. N₂O D. N₄O₄
171	Which is used in the leather industry	A. Borax B. Boric acid C. Boric oxide D. Tetra Boric acid
172	The temperature in the incineration of industrial and hazardous waste process has a range.	A. 900 to 1000 ^oC B. 250 to 500^oC C. 950 to 1300^oC D. 500 to 900^oC
173	Which one of the following elements commonly exhibits oxidation states of +6 and +3 in aqueous solution.	A. Na B. Cr C. Mg D. C
174	Photochemical smog mainly consist of	A. Higher hydrocarbons B. Oxidising agnts C. Reducing agent D. All of these
175	Which substances is called	A. Pb3O4 B. PbO

	chrome yellow.	C. 2PbCO3.Pb(OH)2 D. PbCrO4
176	Lead monoxide is	A. Amphoteric B. Neutral C. Acidid D. Basic
177	Which sugar is called milk sugar	A. Glucose B. Fructose C. Lactose D. Maltose
178	The crystals of caustic soda, NaOH, are hygroscopic when these crystals are exposed to air.	A. Gain water and remains solid B. Gain water and becomes liquid C. Lose mass and remain solid D. Remain unchanged on heating.
179	Which compound is the most reactive	A. Benzene B. Ethene C. Ethane D. Ethyne
180	SN_2reactions can be best carried out with	A. primary alkyl halides B. secondary alkyl halides C. tertiary alkyl halides D. All the three
181	During the manufacturing process of cement the temperature of the decomposition zone goes up to.	A. 600 ^oC B. 900 ^oC C. 1000 ^oC D. 1200 ^oC
182	Which type of coal has greater percentage of carbon.	A. Peat B. Lignite C. Bituminous D. Anthracite
183	The solution of which acid is used for seasoning of food	A. Benzoic acid B. Butanoic acid C. Formic acid D. Acetic acid
184	Which one of the following methods is used for the preparation of ether.	A. Kolbe's reaction B. Frankland reaction C. Williamson synthesis D. Down's process
185	The degree of unsaturation of fat is measured by	A. Iodine number B. Oxidation number C. Reduction number D. Saponification value
186	In which reactions alkane is not produced	A. Subatier's and Sendern reaction B. Koibe's reaction C. Wolf -Kishner's reduction D. Dow's process
187	Which element is present in chlorophyll	A. Ca B. Mg C. K D. Be
188	Grignard reagent is reactive due to	A. The presence of halogen atom B. The presence of Mg atom C. The polarity of C -Mg bond D. None of the above
189	Kerosene oil is a mixture of hydrocarbon having carbon	A. 11 to 13 B. 10 to 12 C. 11 to 12 D. 8 to 9
190	The composition of oleum is.	A. H2SO4 B. H2S2O3 C. H2S2O7 D. H2S3O7
191	Which one of the following compounds show geometrical isomerism in it.	A. 1- pentene B. 1,1 dichloro ethane C. all of these D. 2- Pentene
192	The state of hybridization in ethene molecule is	A. dsp² B. sp³ C. sp² D. sp

193	Hydrolysis of benzene sulphonic acid with superheated steam or by boiling with dil HCl gives.	A. Toluene B. Benzene C. Xylene D. Chlorobenzene
194	In which process, an amino acid is produced	A. Wurtz synthesis B. Strecker synthesis C. Kolbe synthesis D. Cannizzaro reaction
195	Which the correct statement	A. Cl⁻is smaller than Cl atom B. Cl⁻(Ion) and Cl (atom) are equal in size C. Na⁺is smaller than Na atom D. Na⁺is larger than Na atom
196	The basis of modern periodic table is	A. Electron affinity B. Atomic mass C. Ionization Potential D. Atomic number
197	The gas used in bactericidal lamps is	A. Be B. Ar C. Kr D. Xe
198	Peroxyacetyl nitrate (PAN) is a irritant to human beings and it affects	A. Eyes B. Ears C. Stomach D. Nose
199	Which one of the following oxides is amphoteric in nature.	A. MgO B. Na2O C. SO2 D. ZnO
200	Which compound is more soluble in water	A. C₂H₅OH B. C₆H₅OH C. CH₃COCH₃ D. n - hexanol
201	Which one of the following species is a nucleophile	A. CH3 B. (CH3)2 C C. BF3 D. OH-
202	The most reactive alcohol when O-H bond breaks is	A. Tertiary alcohol B. Secondary alcohol C. Primary alcohol D. Methyl alcohol
203	Acetic acid can be obtained from CH3MgI by treatment with.	A. H2O B. CINH2 C. CO2 D. HCHO
204	Vinyl acetylene combines with HCl to form	A. Polyacetylene B. Benzene C. Chloroprene D. Divinyl acetylene
205	Some non protein portion attached to the protein is called.	A. Prosthetic group B. Secondary protein C. Transport protein D. All of these
206	Sulphur is essential constituent for plants. Which is not role of sulphur	A. Chlorophyll development B. Development of root system C. Constituents of some proteins D. Increase transpiration force
207	Which compound will have the maximum repulsion with water	A. C₆H₆ B. C₂H₅OH C. C₃H₇OH D. CH₃OCH₃
208	Which catalyst is used in contact process	A. Fe₂O₃ B. V₂O₅ C. SO₃ D. Ag₂O
209	Ethyne on oxidation with strong alkaline KMnO4 changes to	A. Ethyl alcohol B. Acetaldehyde C. Vinyl alcohol D. Glyoxal
210	Essential amino acids are those which	A. Are present in every protein B. Must be supplied to body through diet C. Contain two carbocyclic acid and one amino group D. Is syntherised by our body

211	Which of the following derivative cannot be prepared directly from acetic acid	A. Acetamide B. Acetyl choride C. Acetic anhydride D. Ethyl acetate
212	Which of the following compounds is used to make spray, which has fungicidal action.	A. BaSO4 B. Na2CO3 C. CaO D. CaSO4.2H2O
213	The mean residence time of methane in atmosphere in	A. 1-2 years B. 3-4 years C. 3-5 years D. 3-7 years
214	Which of the following element has lowest ionization energy	A. Beryllium B. Boron C. Carbon D. Oxygen
215	Which is a secondary pollutant	A. Carbonic acid B. CO₂ C. SO₂ D. CO
216	Which halogen will react spontaneously with Au to produce Au3+	A. Br2 B. F2 C. I2 D. Cl2
217	Acetic acid manufactured by	A. Distillation B. Fermentation C. Ozonolysis D. Esterification
218	To product aldehyde group against alkaline oxidizing agent.	A. It is reduced in the presence of catalyst B. An acetal is formed C. It is oxidized D. It is treated with aqueous NaBH4
219	f - block elements are also called.	A. Non typical transition elements B. Outer transition elements C. Inner transition elements D. None of true
220	Phenol on heating with concentrated nitric acid forms	A. o-nitrophenol B. T.N.T C. Na2CO3 D. Cyclohexanol
221	Methyl alcohol is not used	A. As a solvent B. As an anti freezing agent C. As a substitute for petrol D. For denaturing of ethyl alcohol
222	Elements of Groups IIA are called	A. Alkali metals B. Alkaline earth metals C. Coinage metals D. Halogens
223	Which is not used of Borax	A. Softening of water B. As medicine for washing eyes C. As flux in metallurgical operations D. To make quartz
224	Which one of the following products will be formed in Wurtz reaction when sodium metal reacts with ethyl chloride in anhydrous ether.	A. Methane B. Ethane C. Propane D. Butane
225	The percentage of carbon in different types of iron products is in the order of	A. cast iron > wrought iron > steel B. wrought iron > steel > cast iron C. cast iron > steel > wrought iron D. cast iron = steel > wrought iron
226	Aluminium is used for making petrol and milk storage tanks because it is	A. Conductor B. Non magnetic C. Excellent reflected D. Corrosion resistant
227	Basicity of ortho phosphoric acid is.	A. 1 B. 2 C. 3 D. 4
	Which one of the following is a	A. sulphur B. Antimony

228	metalloid.	B. Antimony C. Mercury D. Zinc
229	Which one of the following is not steroid	A. Cholesterol B. Ergosterod C. Female sex Harmons D. Globulin
230	A solution of borax in water is.	A. Acidic B. Alkaline C. Neutral D. None of these
231	Which of the following statement is correct	A. Na atom is smaller than Na⁺ B. Na atom is larger than K atom C. F atom is smaller than F⁻ D. F atom is larger than F⁻
232	Organic compound having fruity smell are	A. Caboxylic acid B. Alcohols C. Ethers D. Esters
233	The number of acidic hydrogen present in 1-Propyne is	A. 1 B. 2 C. 3 D. 4
234	Acetamide is prepared by	A. Heating ammonium acetate B. Heating methyl cyanide C. Heating ethyl acetate D. The hydrolysis of methyl cyanide
235	Which compound shows maximum hydrogen bonding with water.	A. CH3OH B. C2H5OH C. CH3-O-CH3 D. C6H5OH
236	Which compound is called universal solvent	A. CH₃OH B. C₂H₅OH C. CH₃O CH₃ D. H₂O
237	Which of the following enzymes brings about the hydrolysis of fats	A. Urease B. Maltase C. Zymase D. Lipase
238	Disinfection of water by chlorine is done by the production of.	A. NH2Cl B. NCl2 C. HOCl D. NHCl2
239	Which form of phosphorus is more stable.	A. White B. Red C. Black D. Both a and b
240	Dolomite is a carbonate of	A. Be B. Mg C. Na D. Ba
241	Amongst the following, the compound of that can be most readily sulphonated is	A. Toluene B. Benzene C. Nitro-benzene D. Chloro-benzene
242	Which compound is more soluble of water	A. C2H5OH B. C6H5OH C. CH3OCH3 D. n- Hexanol
243	Geometrical isomerism in alkene is due to.	A. C = C free rotation of bond B. No C = C free rotation of bond C. Presence of multiple bond only D. Opticla rotation due to multiple bond
244	Which one of the following raw materials is not present in the cement.	A. Lime stone B. Gypsum C. Blast furnace slag D. Red lead
245	Which of the following is not a fatty acid	A. Propanoic acid B. Acetic acid C. Phthalic acid D. Butanoic acid
		A. E1 and E2

246	For ---------- Mechanism, the first step involved is the same	A. E1 and E2 B. E2 and S_N2 C. S_N1 and S_N2 D. E1 and S_N1
247	Flavour of ethyl butyrate is	A. Orange B. Pine apple C. Banana D. Apricot
248	Which of the following elements is not present abundantly in earth's crust	A. Silicon B. Aluminium C. Sodium D. Oxygen
249	In primary alkyl halides, the halogen atom is attached to a carbon which is further attached to how many carbon atoms.	A. One B. Two C. Three D. Four
250	The reactivity order of alkyl halides for a particular alkyl group is	A. Fluoride > Chloride > Bromide > iodide B. Chloride > Bromide > Fluoride > iodide C. Bromide > iodide > chloride > Fluoride D. Iodide > Bromide > Chloride > Fluoride
251	Aluminium oxide is	A. Acidic oxide B. Baric oxide C. Amphoteric oxide D. None of these
252	During nitration of benzene, the active nitrating agent is	A. NO₃ B. NO₂⁺ C. NO₂⁻ D. HNO₃
253	Conversion of ammonium carbamate into urea is	A. Hydrolysis B. Hydrogenation C. Hydration D. Dehydration
254	The smog which have high contents of SO2 in it, is called.	A. Reducing smog B. Oxidizing smog C. Natural smog D. Neutral smog
255	Which chemical reduces the acidity of soil.	A. Lime B. Urea C. Ammonium nitrate D. Ammonium sulphate
256	Acetic acid is manufactured by.	A. Distillation B. Fermentation C. Ozonolysis D. Esterification
257	Which one of the following complexes is chelate.	A. Potassium hexacyanoferrate (II) B. Diammine silver (I) Chloride C. Tetracarbonylnikel (0) D. Sodium dioxalatoplatinate (II)
258	The conversion of ethanol to ethene is an example of.	A. Dehydration B. Hydration C. Hydrogenation D. Fermentation
259	Which isomerism is not found in alkenes.	A. Chain isomerism B. Positional isomerism C. Geometrical isomerism D. Metamerism
260	Which carbohydrate can be used for silvering of mirror.	A. Glucose B. Fructose C. Maltose D. All
261	The diameter of rotary kiln in the manufacture of Portland cement is.	A. 1 to 2 feet B. 2 to 4 feet C. 4 to 8 feet D. 8 to 15 feet
262	Which one is not property or uses of mustard gas	A. Used in 1st world war B. Powerful vesicant C. High boiling liquid D. High boiling gas
263	Hydrogen resembles in properties with	A. IA, IV A and VII A elements B. III A, IV A and V A elements C. II A, IV A and VI A elements D. II A, III A and VII A elements

		D. II A, III A and VII A elements
264	the percentage of nitrogen in NH3 is	A. 46% B. 60% C. 82% D. 100%
265	All of the following tests are used to identify aldehydes except.	A. Tollen's test B. Fehling test C. Baeyer's test D. Benedict test
266	Which is called milk of magnesia.	A. MgCO3 B. Mg(OH)2 C. MgSO4 D. MgCl2
267	Which reagent will react with both aldehyde and ketones	A. Grignard reagent B. Tollen's reagent C. Fehling's reagent D. Benedict's reagent
268	In which these process are small organic molecules made into macromolecules.	A. The cracking of petroleum fractions B. The fractional distillation of crude oil C. The polymerization of ethene D. The hydrolysis of proteins
269	Number of peptide bonds in tripeptide is	A. 1 B. 2 C. 3 D. 4
270	Silver mirror test is given by	A. Ethers B. Ketones C. Acids D. Aldehydes
271	Conversion of phenol to benzene is known as.	A. Oxidation B. Reduction C. Hydrolysis D. Hydration
272	Oxide of Alkaline earth metal are	A. Acid B. Basic C. Neutral D. Amphoteric
273	Di ethyl ether can be converted to alcohol by heating with.	A. HI B. NaOH C. Water D. KMnO4
274	What product is formed by the dry distillation of calcium acetate.	A. CH3CH2COOH B. CH3COOH C. CH3COCH3 D. CH3CH2CHO
275	Refrigeration capacity of liquid neon is greater than liquid helium by	A. 80 times B. 50 times C. 40 times D. 10 times
276	Which one of the following is calcareous material	A. Marine shells B. clay C. Shale D. Blast furnace slag
277	Magnesium metal does not burn in the jar of	A. N2 B. O2 C. Ne D. N2 and O2
278	Which one of the following product is not formed when acetic acid is reacted with HI and red phosphorus.	A. I2 B. H2O C. CH3CH3 D. CH3CH2OH
279	CO_2H is a functional group as	A. Alkoxy B. Carbonyl C. Carboxyl D. Hydroxyl
280	Which one of the following metal cannot evolve hydrogen from acetic acid.	A. Sodium B. Potassium C. Magnesium D. Zinc
	Maximum number of unpaired	A. O₂ B. O₂⁺

281	electrons is in	C. O₂⁻ D. O₂²⁻
282	Which property of hydrogen not resemble to alkali metals.	A. Electronic configuration B. Oxidation state C. Reaction with halogen D. Metallic nature
283	Starch is polymer is	A. Fructose B. a -d Glucose C. Sucrose D. B-D-Glucose
284	Which one of the following alkanes will be formed by the hydrolysis of ethyl magnesium bromide	A. Methane B. Ethane C. Butane D. do not hydrolysed
285	What is %age of calcium phosphate in bone ash	A. 20 B. 40 C. 80 D. 60
286	Which of the following acid can be used as a catalyst in Friedel Craft's reactions	A. AlCl₃ B. HNO₃ C. BeCl₂ D. NaCl
287	Down's cell is used to prepare.	A. Sodium carbonate B. Sodium bicarbonate C. sodium metal D. Sodium hydroxide
288	In which compound, oxidation state of sulphur is +6	A. H2S B. H2SO4 C. H2SO3 D. SO3
289	Water is disinfected by a substance to avoid toxification	A. KMnO₄ B. Alums C. O₃ D. Cl₂
290	Which one of the following has highest melting and boiling points.	A. HF B. HBr C. HCl D. HI
291	In which layer of atmosphere, ozone is present.	A. Thermosphere B. Mesosphere C. Stratosphere D. Troposphere
292	Hydrogen bond is the strongest between the molecules of	A. HF B. HCl C. HBr D. HI
293	Bleaching powder may be produced by passing chlorine over.	A. Calcium carbonate B. Hydrated calcium sulphate C. Anhydrous calcium sulphate D. Calcium hydroxide
294	Which one of the following compounds will form red precipitate with ammoniacal cuprous chloride	A. Acetylene B. Ethylene C. Benzene D. Methane
295	Which one of the following compounds undergoes Cannizzaro's Reaction.	A. Acetaldehyde B. Benzaldehyde C. Acetone D. Propionaldehyde
296	Which carbohydrate is called animal starch	A. Glucose B. Fructose C. Glycogen D. Starch
297	In which form, glucose is stored in the liver	A. Lactic acid B. Maltose C. Ribose D. Glycogen
298	The process used to improve quality of gasoline	A. Thermal Cracking B. Reforming C. Combination D. Steam Cracking

299	Which furnace is used to prepared steel	A. Blast furnace B. Pudding furnace C. Bessemer converter D. Pyrite furnace
300	Which one of the following gases is used welding purpose usualy.	A. Methane B. Ethane C. Ethene D. Acetylene
301	When water is added to plaster of paris, it changes to a hard mass. Its volume also expands upto	A. 1% B. 2% C. 3% D. 5%
302	The addition of unsymmetrical reagent to an unsymmetrical alkene is in accordance with the rule	A. Hund's rule B. Markownikov's rule C. Pauli's Exclusion Principle D. Aufbau Principle
303	Which of the following gives acidic oxide	A. N B. As C. Sb D. Bi
304	Which one of the followings is woody raw material used for making pulp and paper	A. Eucalyptus B. Wheat straw C. Bagasse D. Cotton linter
305	The flavour of amylacetate is	A. Orange B. Apricot C. Banana D. Pineapple
306	Banana flavour is given by the ester	A. Octyl acetate B. Amyl butyrate C. Amyl acetate D. Ethyl butyrate
307	Which one of the following elements has no variable valency.	A. Zinc B. Iron C. cobalt D. Manganese
308	Benzene cannot undergo	A. Substitution reactions B. addition reactions C. oxidation reactions D. elimination reactions
309	Which property of triglycerides is used to determine its molecular mass.	A. acid number B. Saponification number C. Iodine number D. gold number
310	Which of the following is a typical transition metal	A. Sc B. Y C. Ra D. Co
311	Which one of the following is not use of chlorine.	A. Formation PVC B. Formation of mustard gas C. Disinfectant and bleaching agent D. Formation of sodium chloride
312	Catalyst used to reduce carboxylic acid to alcohol is	A. H₂/ Ni B. H₂/ pt C. NaBH₄ D. LiAlH₄
313	During pulp making, the pH of digester is maintained at.	A. 1-2 B. 3-5 C. 6-8 D. 7-9
314	The main pollutant of leather tanneries in the waste water is due to	A. Lead B. Chromium VI C. Copper D. Chromium III
315	Zymase can be used to convert glucose to	A. Carbon and steam B. CO2 and hydrogen C. CO2 and Ethanol D. Ethanol and water
316	The nature of lysine amino acid is	A. Acidic B. Basic C. Amphoteric D. Natural

317	The conversation of n-hexane into benzene by heating in in the presence of Pt is called	A. Isomerization B. Aromatization C. Dealkylation D. Rearrangement
318	In which group, melting point and boiling point increase downward in a group	A. IA B. II A C. VII A D. Both a and b
319	Across a period from left to right in the periodic table, the melting and boiling point.	A. Decrease B. Increase C. Remain constant D. First increase upto the middle of period and then decrease
320	According to Lewis concept ethers behave as	A. Acid B. Base C. Acid as well as a base D. Noe of them
321	When ethyl bromide is heated with Ag2O the product formed is.	A. Ethanol B. Ethene C. Ethanol D. Di ethyl ether
322	Which one of the following elements exhibits s-inert pair effect.	A. B B. Al C. Pb D. Sc
323	Which noble gas is used in radiotherapy	A. Neon B. Argon C. Krypta D. Radon
324	Which one of the following uses is not correctly related with the halogen.	A. fluorine -------- Teflon B. Chlorine ---------Bleaching powder C. Bromine ----------PVC plastics D. Iodine ----------Iodex
325	Woody raw material for paper pulp is obtained from	A. Cotton B. Bagasse C. Poplar D. Rice straw
326	Which one is fatty acid	A. Benzoic acid B. Malonic acid C. Phtalic acid D. Palmitic acid
327	Primary, Secondary and tertiary alcohols can be distinguish by.	A. Iodoform test B. Lucas test C. Fehling solution D. Ammoniacal silver nitrates
328	Acetic acid is manufactured by	A. distillation B. fermentation C. ozonalysis D. esterification
329	Fungicides are teh pesticides which	A. Control the growth of fungus B. Kill insects C. Kill plant D. Kill herbs
330	During Nitration of Benzene the active nitrating agent is	A. NO₃ B. NO₂⁺ C. NO₂ D. HNO₃
331	Methyl alcohol can be represented by all of the following words or symbols except.	A. CH3OH B. Wood spirit C. Methanol D. Grain alcohol
332	Which one the following a dihydric alcohol	A. Ethanol B. Cyclo hexanol C. Glycerol D. Glycol
333	Synthetic rubber is made by polymerization of	A. Vinylaecetate B. Acetylene C. Divinylacetylene D. Chloroprene
334	Chlorobenzene on nitration with conc. HNO3 and Conc. H2SO4 gives	A. m -chloronitrobenzene B. o and p chloronitrobenzene C. o and m chloronitrobenzene

	H2SO4 gives.	D. mixture of O2 m and p chloronitrobenzene
335	Which statement is incorrect about H2SO4	A. Dehydration agent B. dibasic acid C. Oxidizing agent D. Reducing agent
336	Which one is an incomplete period	A. 4th B. 5th C. 6th D. 7th
337	Which one of the followings is not a pollutant.	A. CO2 B. NO2 C. CO D. SO2
338	Phenol is the derivative of	A. Alkane B. Aromatic hydrocarbon C. Aliphatic hydrocarbon D. Alkene
339	Bakelite is obtained from phenol by reacting with	A. Acetal B. Ethanal C. Formaldehyde D. Methanol
340	Which one of the following pairs of metal reactive directly with nitrogen	A. Na and Mg B. Li and Mg C. Mg and Ca D. Li and Be
341	The percentage of carbon is different types of iron products is in the order of.	A. Cast iron > wrought iron > Steel B. Wrought iron >Steel >Cast iron C. Cast iron > Steel > Wrought iron D. Cast iron > Steel > Wrought iron
342	In modern periodic table VI period contains elements	A. 8 B. 18 C. 10 D. 32
343	S_N2 reactions can be carried out with	A. Primary alkylhalide B. Secondary alkyhalide C. Tertiary alkylhalide D. All of these
344	Cannizzaro's reaction is given by	A. Acetaldehyde B. Formaldehyde C. Propanal D. Propanone
345	Which one of the following polymers has no peptide linkage in it.	A. Terlene B. Nylon -6,6 C. Protein D. None of these
346	Cyclic structure of benzene was proposed by	A. Dewar B. Faraday C. Down D. Kekule
347	In Down's cell anode is made up of.	A. Iron B. Copper C. Graphite D. Platinum
348	In which substance silicon is not present.	A. Talc B. Asbestos C. Dolomite D. Zirocon
349	A snake was preserved in a solution and was placed in biology laboratory. The solution is.	A. De ionized water B. Fehling solution C. Formalin D. Chloroform
350	Which of the following hydrogen halide is the weakest acid in solution	A. HF B. HBr C. HI D. HCl
351	Transition elements are those	A. Which becomes before uranium B. Which becomes after uranium C. Which are prepared artificially D. Which are in between s-block and p - block elements
		A. Al

352	Tincal is a mineral of.	B. B C. Si D. C
353	The reaction of alkyl halides with sodium metal in the presence of ether to from alkane is known as.	A. Wortz reaction B. Frankland reaction C. Sabatier sendron D. Kolbe's synthesis
354	In which of following processes are small organic molecules made into macromolecules	A. the cracking of petroleum fractions B. the fractional distillation of crude oil C. the polymerization of ethene D. the hydrolysis of proteins
355	Which compound shows hydrogen bonding.	A. C2H6 B. C2H5Cl C. CH3-O-CH3 D. C2H5OH
356	Industrially ethanal is prepared by air oxidation of.	A. Ethane B. Ethene C. Ethyne D. Acetic acid
357	Which one of the following is inorganic polymer	A. Graphite B. Rubber C. DNA D. Protein
358	Aromatic compounds burns with sooty flame because.	A. They have high percentage of hydrogen B. The have a right structure C. The have high percentage of carbon D. The resist reaction with air
359	Iodine deficiency in diet is known to cause.	A. Beri Beri B. Goiter C. Rickets D. Night blindness
360	The Milk of magnesia is used for the treatment of	A. Basicity B. Rancidity C. Acidity D. Jaundance
361	The yellowish colour in photochemical smog is due to the presence of.	A. NO B. NO2 C. SO2 D. CO2
362	Which of the following noble gas is used for arc welding and cutting	A. Helium B. Argon C. Xenon D. Radon
363	An atom or group of atoms, which confers characteristic properties to organic compounds, are called.	A. Isomerism B. Metamerism C. Ligands D. Functional groups
364	$S_N 2$ mechanism involves	A. 1st order kinetics B. 2nd order kinetics C. 3rd kinetics D. zero order kinetics
365	Which substance is used to convert Grignard reagent to alkane.	A. H2O B. NH3 C. Ethyl alcohol D. All of these
366	Ozone is mostly produced in	A. Tropical region B. North polar region C. South polar region D. Thermosphere zone of atmosphere
367	Which process is used to convert vegetable oil to vegetable ghee.	A. Hydrolysis B. Oxidation C. Esterification D. Hydrogenation
368	During manufacturing of cement , the temperature of pre heating zone is.	A. 500 ^oC B. 900^oC C. 1000^oC D. 1500^oC
369	The conversion of benzene to chlorobenzene is a	A. Addition reaction B. Elimination reaction C. Substitution reaction D. Dehydration process

370	The conversion of potassium magnate to potassium permanganate by passing Cl2 Through aqueous solution of K2MnO4 is called.	A. Contact process B. Open hearth process C. Stadeler's process D. Thermite process
371	Ethanol on oxidation in the presence of K2Cr2O7 and Conc. H2SO4 changes to.	A. Acetaldehyde B. Ethane C. Ethene D. CO2 and H2O
372	Which of the following specie has the maximum number of unpaired electrons.	A. O2 B. O2+ C. O2- D. O2⁻²
373	Which can produce ketone	A. Sec alcohol B. Calcium acetate C. Propyne D. All of these
374	Lactose has same molecular formula as	A. Glucose B. Fructose C. Ribose D. Maltose
375	Setting of Plaster of Paris is accompanied with	A. Hydrogen bonding B. Hydration C. Dehydration D. None of these
376	Which products is not formed when ethyl alcohol reacts with SOCl2 in the presence of pyridine.	A. Ethyl chloride B. Hydrogen chloride C. Sulphur di oxide D. Sulphur tri oxide
377	An alkyl halide may be converted to alcohol by	A. Addition B. Substitution C. Dehydrohalogenation D. Elimination
378	Boric acid can not be used.	A. As antiseptic in medicine B. For washing eyes C. In soda bottle D. For enamels and glazes
379	The colour of transition metal complexes	A. d-d transitions of electrons B. paramagnetic nature of transition elements C. ionization D. loss of s-electron
380	Which one of the following gases is prepared by heating a mixture of sodium acetate and sodium hydrozide.	A. CH4 B. CH2-CH3 C. CO2 D. CO
381	Which of the following are mono-saccharides	A. Fructose B. Sucrose C. Stach D. Cellulose
382	Which one of the following gases is used for artificial ripening of fruits.	A. Ethene B. Ethyne C. Methane D. Propane
383	Elimination biomolecular reactions involve.	A. First order kinetics B. Second order kinetics C. third order kinetics D. Zero order kinetics
384	Ammonium Nitrate fertilizer is not useful for	A. Wheat B. Cotton C. Sugan cane D. Paddyrice
385	Nylon 6,6 is obtained by the reaction of hexamethylene diamine with	A. Acetic acid B. Adipic acid C. Viny chloride D. Acetyl chloride
386	A quality of raw water is improved by	A. Reduction B. Aeration C. Dehydration D. Incineration
387	The concept of atomic number was introduced by	A. Alrazi B. Mendeleeve C. Moseley

		D. Dobereiner
388	In ethene molecule, the number of atoms which are present in the same plane are.	A. 2 B. 6 C. 3 D. 4
389	Which one is cyclic amino acid	A. Glycine B. Alanine C. Proline D. Aspartic acid
390	Ethyl alcohol on reacting with orthoboric acid form	A. Ethyl borate B. Boric acid C. Boron acetate D. Borax
391	Which of the following compounds will not give iodoform test on treatment with I2/NaOH	A. Acetaldehyde B. Acetone C. Butanone D. 3-Pentaneone
392	Which compound is alicyclic in nature.	A. Cyclobatane B. Iso batane C. n butane D. Toluene
393	Phosphorus helps the growth of	A. Root B. Leaf C. Steam D. Seed
394	Which one of the following species is not an electrophile.	A. HN3 B. Br C. H+ D. BF3
395	The most metallic elements from the following is	A. Arsenic B. Oxygen C. Antimony D. Bismuth
396	Which one of the following does not belong to alkaline earth metals.	A. Be B. Ra C. Ba D. Rn
397	Which gas is cause of Asthma	A. O₃ B. O₂ C. SO₂ D. CO₂
398	Which of the following elements is not present abundantly in earth's crust.	A. Silicon B. Aluminium C. Sodium D. Oxygen
399	The ore CaSO4.2H2O has the general name.	A. Gypsum B. dolomite C. Calcite D. Epsom salt
400	When methane reacts with Cl_2 in the presence of diffused light the products obtained are	A. Chloroform only B. Carbon tetrachloride only C. Chloromethane and dichloromethane D. Mixture of a, b, c
401	Predict the product or reaction. Acetaldehyde +NaOH	A. An aldol B. Acetic acid C. Ethanol D. Paraldehyde
402	Absolute alcohol is that which is	A. 100% B. 95% C. Ethanol mixed with methanol D. Ethanol mixed with H2O
403	Which of the following acids possess oxidizing and reducing properties.	A. HCl B. HNO2 C. HNO3 D. H2SO4
404	The macro nutrients are required in ranging from	A. 5 kg to 200 kg B. 5 kg to 200 g C. 6g to 200 g D. 1 kg to 100 kg
		A. Lower than that of barium

405	Ionization energy of calcium is.	B. Lower than that of magnesium C. Higher than that of beryllium D. Lower than that of strontium
406	Which compound is called a universal solvent.	A. H_2O B. CH_2OH C. C_2H_5OH D. CH_5-O-CH_3
407	In a period, from left to right in the periodic table, the size of atom generally.	A. Increases B. decreases C. Remains constant D. First increase upto the middle of period and then decreases
408	Ecosystem is a smaller unit of	A. lithospher B. hydroshper C. atmosphere D. biosphere
409	In which hybridization bond angle is maximum	A. sp3 B. sp2 C. sp D. sp3 and sp have same angles
410	Chlorine heptoxide reacts with water to form	A. Hypochlorous acid B. Chloric acid C. Perchloric acid D. Chlorine and oxygen
411	Which one of the following noble gases is least polarizable	A. He B. Ne C. Ar D. Kr
412	Which ion will have the maximum value of heat of hydration.	A. Na^+ B. Ca^+ C. Ba^{+2} D. Mg^{+2}
413	The solution of which acid is used for seasoning of food.	A. Formic acid B. Acetic acid C. Benzoic acid D. Butanoic acid
414	The substance which is added to remove impurities is known as	A. Slag B. Flux C. Ore D. Gangue
415	Acetaldehyde reacts usually with	A. Electrophiles only B. Nucleophiles only C. Electrophiles and nucleophiles D. Free radicals only
416	Which of the following sulphates is not soluble in water.	A. Sodium sulphate B. Potassium sulphate C. Zinc sulphate D. Barium Sulphate
417	Aluminium oxide is.	A. Acidic oxide B. Basic oxide C. Amphoteric oxide D. None of these
418	Which oxide is amphoteric in nature.	A. BeO B. MgO C. CaO D. BaO
419	m-choronitro benzene is prepared by	A. Nitration of chlorobenzene B. Nitration of Benzene C. Chlorination of Nitrobenzene D. Nitration of m-chlorobenzene
420	Which one of the followings is major product when HBr reacts with 2-butene	A. 2- bromobutane B. 1- bromobutane C. 1-1 di bromobutane D. 1,2 di bromobutane
421	The compound which can not be nitrated easily.	A. Benzene B. Nitrobenzene C. Phenol D. Toluene
422	Which hydride is intermediate in nature.	A. NaH B. BeH_2 C. NH_3 D. HCl

423	The type of hybridization in PCl3 is.	A. dsp2 B. sp3 C. dsp3 D. d2sp3
424	Air of the following tests are used to identify aldehydes except.	A. Tollen's test B. Fehling test C. Baeyer's test D. Benedict test
425	Which one of the following products is not formed when acetic acid reacts with PCl5	A. C2H5Cl B. HCl C. POCl3 D. CH3COCl
426	---------- element forms an ion with charge 3^+	A. Beryllium B. Aluminium C. Carbon D. Silicon
427	Number of elements in the first period of the periodic table is	A. 2 B. 8 C. 14 D. 18
428	Which field produces significant amount of methane in the atmosphere	A. paddy field B. Cotton field C. Can sugar field D. Wheat field
429	The chemical composition of pyrolusite is.	A. KMnO4 B. K2MnO4 C. MnO2 D. MnO
430	Oxides of alkaline earth metal are	A. Acidic B. Basic C. Neutral D. Amphoteric
431	Nucleophilic substitution reactions, which are completed in two steps are called as.	A. SN1 B. SN2 C. E1 D. E2
432	Which one of the following group of Periodic table called chalcogen family.	A. Group III A B. Group VA C. Group VI A D. Group VII A
433	The news paper can be recycled again and again as many times as	A. 5 B. 3 C. 4 D. 2
434	Which form interstitial compounds.	A. Fe B. Ni C. CO D. All of those
435	Which element does not have allotropic form	A. Nitrogen B. Phosphorous C. Arsenic D. Antimony
436	Systematic name of phthalic acid is	A. Benzenedicarboxylic acid B. Benzene doioc acid C. 1,2 benzenedicarboxylic acid D. o, carboxylic benzoic acid
437	The macronutrients are required in quantities ranging from	A. 4-40 kg per acre B. 10-100 kg per acre C. 5-100 kg per acre D. 5-200 kg per acre
438	Typical transition element is	A. Sc B. CO C. Ra D. Y
439	In which substance phosphorus is not present.	A. Yolk of egg B. Bones C. Apatite D. Galena
440	Ethers show the phenomenon of	A. Position Isomerism B. Functional group isomerism C. Metamerism D. Chain isomerism

441	Which gas is evolved when CO2 is passed through KO2.	A. O2 B. CO C. O3 D. None of these
442	In Pakistan, the total consumption of paper per person per year is.	A. 2 kg B. 5 kg C. 7 kg D. 10 kg
443	Corundum is	A. Al2O3 B. Na2AlF6 C. Quartz D. Calcium
444	An aldehyde is reduced to alkane with hydrazine is the presence of	A. KOH B. NaOH C. CaO and NaOH D. Ca(OH)2
445	According to Lewis concept, ethers behave as	A. Acid B. Base C. Nucleophile D. Solvent
446	Which of the following will have the highest boiling point.	A. Methanal B. Ethanal C. Propanal D. 2-Hexanone
447	Peroxyacetylnitrate (PAN) is an irritant to human beings and it affects	A. eyes B. ears C. stomach D. nose
448	Which element form an ion with charge +3	A. Beryllium B. Aluminum C. Carbon D. Sillicon
449	Which is the strongest acid	A. HClO B. HClO₂ C. HClO₃ D. HClO₄
450	Which element burns in nitrogen atmosphere to form nitride.	A. Mg B. Al C. Both a and b D. None of these
451	Geometrical shape of [CO(NH3)6Cl3	A. linear B. square planar C. Octahedral D. Trigonal hypyramid
452	Which of the following hydrogen halide is the weakest acid in solution.	A. HF B. HBr C. HI D. HCl
453	The word paper is derived from the name of which reedy plant	A. Rose B. Sun flower C. Papyrus D. Water
454	Which one of the following gases exist in monoatomic form.	A. Ozone B. Nitrogen C. Krypton D. Phosphine
455	d -block elements which show anomalous configuration in first series are	A. Cr and Ni B. Cr and Cu C. Cu and CO D. Fe and Ni
456	Mild steel contains carbon percentage	A. 0.1 - 0.2% B. 0.3 - 0.7% C. 0.7 - 1.5% D. 1.6 - 2.0%
457	Which woody raw material is used for the manufacture of paper pulp.	A. Cotton B. Bagasse C. Poplar D. Rice straw
458	Which one of the following is	A. PVC B. Polyvinyl acetate

	co polymer	C. Nylon -6,6 D. Polyethene
459	Which allotrope of phosphorus has layers like graphite.	A. white phosphorus B. Red phosphorus C. Black Phosphorus D. Amorphous phosphorus
460	Which one of the following enzyme is used for the treatment of blood cancer in children.	A. Thrombin B. Asparaginase C. Glucokinase D. Fumarase
461	Out of all the elements of group VA, the highest ionization energy is possessed by	A. N B. As C. Sb D. Bi
462	In group VA elements the most electronegative elements is.	A. Sb B. N C. P D. As
463	Which compound shows maximum hydrogen bonding with water	A. CH₃OH B. C₂H₅OH C. CH₃- O - CH₃ D. C₆H₅OH
464	Alcohol obtained by fermentation is only upto	A. 10% B. 12% C. 20% D. 95%
465	Which substance reacts with sodium nitroprusside.	A. Ethanol B. Acetaldehyde C. Dimethyl ketone D. Methanol
466	Which element reacts with alkali and H2 gas is produced.	A. Be B. Mg C. Ca D. Sr
467	Sodium is collected over molten sodium chloride in Down's cell, because.	A. It does not react with NaCl B. It is lighter in weight and floats on molten NaCl C. Its reactivity is greater than NaCl D. None of these
468	Plastics are pollution problem because many plastics	A. are made from petroleum B. are very inflammable C. burn to produce toxic fumes D. decompose to produce toxic products
469	Which one of the following elements burns in air to form an oxide which, when shaken with water, give a solution with a pH greater than 7.	A. Carbon B. Magnesium C. sulphur D. Hydrogen
470	Which of the following reagents will reacts with both aldehydes and ketones.	A. Grignard reagent B. Tollens's reagent C. Fehling's reagent D. Benedict 's reagent
471	Which compound is the most reactive	A. Benzene B. Ethene C. Ethane D. Ethyne
472	Thickness of the atmosphere is	A. 100 km B. 500 km C. 1000 km D. 1500 km
473	which one of the general formula of alkene	A. CnH2n B. Cn2n+2 C. CnH2n-2 D. CnH2n+1
474	The variation pattern in ionic radii of first transition series shows	A. A regular increase B. A regulars decrease C. No regular pattern D. A regular decrease and than alight increase
475	The presence of a double bond in a compound is the sign of	A. Saturation B. Un-saturation C. Substitution D. None of these

476	The oxide of beryllium is	A. Acidic B. Basic C. Amphoteric D. None of these
477	Which one of the following elements has the same oxidation number in all its known compounds.	A. Beryllium B. Nitrogen C. Sulphur D. Chorine
478	Which one of the following is an amide	A. (NH₂)₂CO B. NH₂.CH₃ C. C₆H₅NH₂ D. N(CH₃)₃
479	The difference of actual and theoretical heat of hydrogenation of compound is called.	A. Lattice energy B. Resonance energy C. Ionization energy D. Enthalpy of formation
480	Micronutrients for plant are those which	A. Are required in very large amount B. Are required in very small amount C. Are produced from plants in very small amount D. Retard the growth of plants
481	Which gas has highest boiling points.	A. He B. Ne C. Ar D. Kr
482	Which compound form benzoic acid on oxidation with strong oxidizing agent.	A. Toluene B. Ethyl benzene C. n propyl benzene D. All
483	Mark the incorrect statement	A. Metallic character increase down the group B. Metallic character increase from left to right along a period C. Metallic character decrease from left to right along a period D. Metallic character remains the same down the group
484	The aromatic ring of Benzene can be hydrogenated in the presenc eof.	A. Pt B. Rh C. Sunlight D. O3
485	Which one is metaphosphoric acid	A. HPO3 B. H3PO3 C. H3PO4 D. H4P2O7
486	Which catalyst is used in contact process.	A. Fe2O3 B. V2O5 C. SO3 D. Ag2O
487	In IUPAC system, the name of K4[Fe(CN)6] is	A. Potassium ferricynaide B. Potassium ferrocynide C. Potassium Hexacyanoferrate (II) D. Poatssium hexacaynoferrate (III)
488	Which of the following derivative connot be prepared directly from acetic acid.	A. Acetamide B. Acetyl chloride C. Acetic anhydride D. Ethyl acetate
489	Which enzyme is not involved in fermentation of starch	A. Zymase B. Urease C. Invertase D. Diastase
490	Which substance is used for silvering of mirror.	A. Acetaldehyde B. Ethanol C. Ethylene glycol D. Acetone
491	Boiling point range of petroleum ether.	A. 5- 20 ^oC B. 10- 30^oC C. 20- 60^oC D. 30- 90^oC
492	Which one is primary pollutant.	A. Peroxyacetyl nitrate B. Sulphuric acid C. Carbonic acid D. Carbon monoxide
493	The isomers always have same	A. Chemical properties B. Structural formula C. Molecular formula D. Physical properties as well as chemical properties

		D. Physical properties as well as chemical properties
494	Which one of the following liberates CO2 from an aqueous solution of NaHCO3.	A. Acetic acid B. Ethyl alcohol C. Phenol D. Acetyl chloride
495	The anhydride of $HClO_4$is	A. ClO₃ B. ClO₂ C. Cl₂O₅ D. Cl₂O₇
496	What are the number of the electrons in valence shell of P in PCl3	A. 4 B. 6 C. 8 D. 10
497	The element of 2nd period, which has highest ionization energy from the following is	A. Be B. C C. N D. O
498	Which one of the following compound has octane number 100.	A. 2,2,4-trimethyl petane B. n- pentane C. 2,4-dimethyl pentane D. 2- methyl pentane
499	Plastics are a pollution problem because many plastics	A. Are made from petroleum B. Are very inflammable C. Burn to produce toxic fumes D. Decompose to produce toxic products
500	Which nitrogen fertilizer make the soil acdic.	A. Calcium nitrate B. sodium nitrate C. Potassium nitrate D. Ammonium nitrate
501	In aqua regia, the ratio of conc. HCl to Conc. HNO3 is	A. 1 : 1 B. 2 :1 C. 1:2 D. 3 : 1
502	The reaction between Cu and conc. H2SO4 produces	A. SO3 B. SO2 C. H2 D. Cu + ions
503	Which one of the following Lipids does not have glycerol backbone.	A. Cholesterol B. Oil C. glycogen D. Vitamin D
504	Which substance is used for denaturing of ethanol	A. Methanol B. Acetone C. Pyridine D. All
505	The quality of petroleum is determined by	A. Decane number B. Octane number C. Hexane number D. Gold number
506	Peroxyacetyl nitrate is an irritant to humab beings and it affects	A. Eyes B. Ears C. Stomach D. Nose
507	Which one of the following elements burns in air to form an oxide which, when shaken with water, give a solution with a pH greater than 7.	A. Carbon B. Magnesium C. sulphur D. Hydrogen
508	Aluminium does not corrode because.	A. It is a semi metal B. It is a silver shining metal C. It does not react with O2 D. It forms a protective layer of Al2O3
509	The fiber in which monomer isCH2=CH-Cl is known as	A. Saran fiber B. PVC C. Rayon fiber D. Arcylic fiber
510	The general formula for Alkanes is	A. C_nH_{2n+1} B. C_nH_{2n} C. C_nH_{2n-2} D. C_nH_{2n+2}
	The aqueous solution of which	A. K2CrO4 B. K2CrO7

511	The aqueous solution of which substances is green in colour	B. K2CrO4 C. KMnO4 D. K2MnO4
512	Which element reacts with carbon to form metal carbide.	A. Li B. Na C. K D. All of these
513	Which one of the following is not use of acetic acid.	A. Coagulant for rubber latex B. Local irritant C. Formation of rayon and silk D. Formation of alcohol
514	The bond angle between any two SP^2Hydridized orbitals is of	A. 180° B. 109.5° C. 120° D. 107.5°
515	Aluminum oxide is	A. acidic oxide B. basic oxide C. amphoteric oxide D. none of these
516	Which one of the following elements burns in air to form an oxide which, when shaken with water, give sa solution with a pH greater than 7.	A. Carbon B. Magnesium C. sulphur D. Hydrogen
517	Benzene molecule is made up of.	A. 3- pi and 9 sigma bonds B. 6- pi and 6 sigma bonds C. 6 -pi and 12 sigma bonds D. 4 -pi and 12 sigma bonds
518	Which of the following is an ester.	A. Soap B. Starch C. PVC D. Dacron
519	The normal amount of overhead ozone is.	A. 300 DU B. 350 DU C. 400 DU D. 450 DU
520	Main source of aromatic compound is	A. Petroleum B. Coaltar C. Living organisms D. Dead marine animals
521	Which of the following is Ortho and Para directing group	A. -I B. -CHO C. -COR D. -NH₂
522	When Cu reacts with conc. HNO3 , which one of the following gases is evolved	A. N2O B. NO C. NO2 D. N2O5
523	Which element among the following belongs to Group IV A of the Periodic table.	A. Barium B. Iodine C. Lead D. Oxygen
524	Which is most difficult to be oxidized	A. CH₃CHO B. CH₃COCH₃ C. HCHO D. C₂H₅CHO
525	Benzene can not undergo.	A. Substitution reactions B. Addition reactions C. Oxidation reactions D. Elimination reactions
526	Which of the following has highest boiling point	A. Methanal B. Ethanal C. Propanal D. 2-hexanone
527	In which process, alkyl halide is not produced.	A. Reaction of alcohol with halogen acid B. Reaction of Grignard reagent with water C. Reaction of alcohol with phosphorous pentachloride D. Action of alkene on halogen acid
528	Which has reddish brown colour.	A. silver acetylide B. Copper acetylide C. BaSO4 D. Aqueous KMnO4 solution

529	The reacts with halogen acids to form alkyl halide the process is known as.	A. Halogenation B. Hydrohalogenation C. Hydrogenation D. Dehydrohalogenation
530	Which is the longest periodic table	A. 4 B. 5 C. 6 D. 7
531	Fluorine is in group VIIA of periodic table. Its chemistry will most closely resembles that of.	A. Argon B. Boron C. Iodine D. Sulphur
532	Ethanol can be converted into ethanoic acid by.	A. Hydrogenation B. Hydration C. Oxidation D. Fermentation
533	Which of the following are alkaline earth metals?	A. Be, Mg, Ca B. Li, Na, K C. Fe, CO, Ni D. B, Al, Ga
534	A carbohydrate that cannot be acid hydrolysed is called.	A. Monosaccharides B. Di saccharides C. Poly saccharides D. Starch
535	Which one of the following is a compound protein or conjugate protein.	A. Legumin B. Albumin C. Collagen D. Phosphoprotein
536	Which are correct oxidation states for lead	A. +1, +2 B. +3 , +5 C. +2 ,+4 D. +4 only
537	Which one of the following sets has coinage metaals is it.	A. Cu, Hg, Au B. Cu, Ag, Au C. Ag, Au, Hg D. Cu, Fe, Au
538	Which reagent is used to reduce a carboxylic group to an alcohol	A. N₂/ Ni B. H₂/Pt C. NaBH₄ D. LiAlH₄
539	Elimination Bimolecular reactions involve	A. Second order kinetics B. First order kinetics C. Third order kinetics D. Zero order kinetics
540	Formic acid is present in.	A. Butter B. Vinegar C. Ant D. Sunflower
541	Which compound is the most reactive one	A. benzene B. ethene C. ethane D. ethyne
542	Which one of the following is formed when ethyne is heated in copper tube at 300 ^{O}C	A. Ethene B. Ethane C. Benzene D. Cyclohexane
543	The pH of unpolluted rain water should be	A. 5.00 B. 5.60 C. 6.50 D. 7.00
544	Which is not coloured ion	A. SO4⁻² B. MnO4-3 C. CrO4⁻² D. Cr2O7⁻²
545	Which of the following is non-typical transition metal	A. Fe B. Mn C. Zn D. Ni
546	The transition elements which are present in 4th period of periodic table have atomic	A. 22 to 30 B. 21 to 30 C. 21 to 29

	periodic table have atomic number.	C. 21 to 29 D. 21 to 31
547	An element that has high ionization energy and tends to be chemically inactive would most likely to be	A. an alkali metal B. a transition element C. a noble gas D. a halogen
548	Phenol can be prepared from chlorobenzene by	A. Williamson synthesis B. Down's process C. Kolbe reaction D. Cannizzaro reaction
549	In Pakistan pulp is usually bleached with Cl2. The residual chlorine is removed from pulp by an antichlor which is	A. dil HCl B. dil NaOH C. Water D. NaCl
550	Ca Mg3 (SiO3)2 is the composition of.	A. Dolomite B. Gypsum C. Calcite D. Asbestos
551	Arsenic impurities in contact process are removed.	A. By prolong heating the gases B. By treatment with Fe(OH)3 C. In scrubbing tower D. In absorption tower
552	Prilling is a process in which	A. Concentration of urea is increased B. Water is removed from urea C. Molten urea is converted to solid drop D. Some other ingredients are added to urea
553	Which one of the following does not belong to alkaline earth metals	A. Be B. Ra C. Ba D. Rn
554	Which one of the following is not an alkali metal	A. Francium B. Caesuym C. Rubidium D. Radium
555	Which substance is used to convert alcohol to alkyl halide.	A. SOCl2 B. PCl3 C. HCl +ZnCl2 D. All of these
556	The composition of white lead is	A. PbCO3.Ph(OH)2 B. PbCO3.2Pb(OH)2 C. 2PbCO3.Pb(OH)2 D. PbCO3
557	Biphenyl is	A. Monocyclic aromatic compound B. Polyclic aromatic compound C. Polycyclic fused ring compound D. Alicyclic compound
558	Acetic acid is commercially prepared form	A. Ethene B. Ethane C. Ethyne D. Ethanol
559	Vinyl chloride when boiled with alcoholic KOH , gives	A. Acetylene B. Ethylene C. Ethene D. Ethyl alcohol
560	The percentage of nitrogen in urea is.	A. 36% B. 46% C. 56% D. 65%
561	Paraldehyde is used as a	A. Medicine B. Poison C. Polymer D. Dye
562	Aldehyde react with hydroxyl amine in acidic solution to give	A. An oxime B. Aldol C. Polymer D. Acetic acid
563	For which mechanisms, the first step involved is the same.	A. E2 and E2 B. E2 and SN2 C. SN1 and E2 D. E1 and SN1
		A. PVC

564	Which one of the following plastic is a thermosetting plastic.	A. PVC B. Polystyrene C. Polyethene D. Bakelite
565	Which makes a molecule more stable.	A. Greater localization of pi electrons B. Less delocalization of pi electrons C. Greeter delocalization of pi electrons D. Less delocalization for pi electrons
566	Which one is not an argillaceous material.	A. Clay B. Shale C. State D. Gypsum
567	All of the followings react with Fehling solution except	A. CH2CH2CHO B. CH3-CH2COCH3 C. HCHO D. CH3-CHO
568	Chemical composition of colemanite is	A. Ca₂B₆O₁₁. 5H₂O B. CaB₄O₇. 4H₂O C. Na₂B₄O₇.4H₂O D. CaNaB₅O₉. 8H₂O
569	Aromatic hydro carbon are the derivatives of	A. Normal series of paraffins B. Alkene C. Benzene D. Cyclohexane
570	Which three elements are needed for the healthy growth of plants.	A. N,S,P B. N, Ca, P C. N,P,K D. N,K,C
571	How much fresh water is used for domestic purpose	A. 8% B. 23% C. 69% D. 100%
572	Formalin is	A. 10% solution of formaldehyde in water B. 20% solution of formaldehyde in water C. 40% solution of formaldehyde in water D. 60% solution of formaldehyde in water
573	Which of the following compounds will not give Iodoform test on treatment with I_2/ NaOH	A. Acetaldehyde B. Acetone C. Butanone D. 3-Pentanone
574	Phenol after reduction with hydrogen changes to	A. Picric acid B. Benzene C. Cyclohexane D. Cyclohexanol
575	Grignard's reagent is reactive due to	A. the presence of halogen atom B. the presence of Mg atom C. the polarity of C-Mg bond D. none of the above
576	Ester are formed the reaction of carboxylic acid with.	A. Alcohol B. Ethers C. Aldehydes D. Alkyl halides
577	What is the oxidation state of Xenon in XeOF2	A. 0 B. +2 C. +4 D. +6
578	Structure of benzene is	A. Tetrahedral B. Trigonal planar C. Hexagonal planar D. Linear
579	Which of the following is a typical transition metal.	A. Sc B. Y C. Ra D. CO
580	The catalytic oxidation of methane produces	A. CO + H₂O B. CO₂+ H₂O C. C₂+ H₂O D. H₃C - OH
581	Aromatic hydrocarbons are the derivatives of	A. Normal series of paraffins B. Alkene C. Benzene D. Cyclohexane

582	Which condition are not suitable for the growth of enzymes.	A. Temperature between 25 ^oC to 37 ^oC B. Solution must be dilute C. Environment must be aerated D. Some preservative should be present in solution
583	Hydrogen bond is the strongest between the molecules of.	A. HF B. HCl C. HBr D. HI
584	Which one of the following is not a nucleophile.	A. H2O B. H2S C. BF3 D. NH3
585	Acetone reacts with HCN to form a cyanohydrin. It is an example of.	A. Electrophilic addition B. Electrophilic substitution C. Nucleophilic addition D. Nucleophilic substitution
586	Mark the correct statement.	A. Na+ is smaller than Na atom B. Na+ is large than Na atom C. Cl- is smaller than Cl atom D. cl- and Cl are equal in size
587	What is Glacial acetic acid	A. Pure acetic acid B. 95% acetic acid C. a mixture of acetic acid and glycerol D. Vinegar
588	The Plastic which become soft and melt on heating and can be molded and remolded are called.	A. Thermoplastic B. Thermosetting plastic C. Resin D. Melamine
589	The minimum temperature of troposphere is.	A. -2^oC B. -56^oC C. -100^oC D. 15^oC
590	Which of the following is a reddish brown gas	A. N₂O₃ B. NO₂ C. N₂O₃ D. N₂O₅
591	The word paper is derived from the name of which reedy plant	A. Rose B. Sun flower C. Papyrus D. Water Hyacinth
592	Glycoside linkage is present in	A. Proteins B. Nylon -6,6 C. Starch D. DNA
593	Boric acid cannot be used	A. As antiseptic in medicine B. For washing eyes C. In soda bottles D. For Enamals and Glazes
594	The reaction between concentrated H2SO4 and glucose give carbon and water. In this reaction H2SO4 acts as.	A. An acid B. An oxidising agent C. Dehydrating agent D. A reducing agent
595	Catalyst used in thermal cracking	A. Platinum B. Nichel C. Al2O3 and SiO2 D. Fe2O3 and CuO
596	Which class of compounds can not show positional isomerism.	A. Alkanes B. Alkene C. Alkynes D. Alcohol
597	When hydrolyzed, protein yields.	A. Fatty acid B. Glycerol C. Amino acid D. Nucleosides
598	Which one of the following molecules does not form alcohol when reacts with a Grignard reagent.	A. Formaldehyde B. Acetaldehyde C. Propanone D. CO2
599	Sulphuric acid acts as dehydrating agent in its	A. Sodium chloride B. Potassium nitrate

	dehydrating agent in its reaction with.	C. Copper D. Ethyl alcohol
600	Which on eof the following alkaline earth metal form peroxide when heated with oxygen at 600 ^{o}C	A. Magnesium B. Calcium C. Strontium D. Barium
601	The reactivity of Grignard's regent is due to	A. Polarity of Mg-x bond B. Polarity of C-Mg bond C. Electro negativity of halogen atom D. Presence of Mg-atom
602	What are the total numbers of periods in the modern periodic table.	A. 3 B. 5 C. 7 D. 8
603	Which of the following is not an amino acid	A. Aspartic acid B. Lysin C. Alanine D. Aniline
604	A polymeric substance that is formed in the liquid state and then hardened to a rigid solid is called a	A. fibre B. plastic C. varnish D. polyamide resin
605	Electron affinity is measure of energy	A. Required to remove the electron B. Released by adding an electron C. Required to excite an electron D. Released by removing an electron
606	Which metal is redered passive by HNO_3due to formation of a film of metal oxide over the metal	A. Pt B. Sn C. CO D. Mn
607	Which gas is used for artificial ripening of fruits	A. Ethene B. Metheane C. Propane D. Ethyne
608	The reaction between fat and NaOH is	A. Estrification B. Hydrogenolysis C. Fermentation D. Saponification
609	Acetaldehyde undergoes, aldol condensation in the presence of.	A. dil HNO3 B. DIL NaOH C. dil HCl D. Conc. H2SO4
610	The thickness of ozone layer is.	A. 25 to 50 km B. 25 to 28 km C. 3 km only D. 1 km only
611	Which raw material is used for manufacture eof HNO3 by Birkland eyed process	A. NH3 and CO2 B. Air C. Air and gypsum D. Lime stone and urea
612	Gold dissolves in "Aqua Regia" due to formation of Halide. Point out correct halide	A. AuF₃ B. AuCl₃ C. AuBr₃ D. AuI₃
613	Cement is a mixture of	A. Clay and clinker B. Clay, lime stone and gypsum C. Lime stone and gypsum D. Lime stone and clay
614	Which compound will have maximum repulsion with H2O	A. C6H6 B. C2H5OH C. CH2CH2CH2OH D. CH5-O-OH3
615	Which compound is least reactive	A. CH3-CH3 B. CH2=CH2 C. CH=CH D. C6H6
616	Which statement is correct about the given reaction. 2NaOH + Cl2 ---------- NaCl + NaClO + H2O	A. Cl is oxidized and O is reduced B. Cl is reduced and O is oxidized C. Cl is oxidized as well as reduced D. Neither Cl nor oxygen is reduced or oxidized

617	In which one of the following sets do all three particles have same number of total electrone	A. F- ,Cl-,Br- B. Li+ , Na+ , K+ C. N^{--3,} O-2, F-, D. Na+, Mg+2, K+
618	When benzaldehyde is converted to benzyl alcohol by reading with NaOH the reaction is known as.	A. Cannizzaro reaction B. Wurtz reaction C. Wol;ficisthner reaction D. Aldol reaction
619	In t-butyl alcohol, the tertiary carbon is bonded	A. Three hydrogen atoms B. Two hydrogen atoms C. One hydrogen atom D. No hydrogen atom
620	Which one of the following gases is used in welding purpose usually	A. Methane B. Ethane C. Ethene D. Acetylene
621	Starch is	A. Monosaccharide B. Disaccharide C. Polysaccharide D. Oligosaccharide
622	Third abundant element on earth crust is.	A. Boron B. Oxygen C. Aluminium D. Silicon
623	When $CO_2$is made to react with ethyl magnesium iodide, followed by acid hydrolysis, the product formed is	A. propane B. propanoic acid C. propanal D. propanol
624	Which one of the following substance does not react with Na.	A. CH3COOH B. CH3OCH3 C. CH3OH D. C2H5OH
625	A polymeric substance that is formed in the liquid state and then hardened to a right solid is called a	A. Fiber B. Plastic C. Varnish D. Polyamid resin
626	Lowest oxidation state of nitrogen is present in.	A. NH3 B. NO2 C. NO D. HNO3
627	What is effect of solubility of carboxylic acid in water by increasing their molecular masses.	A. Decreases B. Increase C. Remain constant D. Non effected
628	---------- compound shows extensive hydrogen bonding with water	A. C₂H₆ B. H₂S C. C₂H₅OH D. CH₃Cl
629	Which is more basic	A. RbOH B. NaOH C. KOH D. Li OH
630	In unimolecular reactions, the reaction completes in	A. _{One step} B. Two steps C. Three steps D. None of these
631	Which electronic configuration corresponds to an element of group III-A of the Periodic Table	A. 1s²,2s²,2p⁶,3s²,3p¹ B. 1s²,2s²,2p⁶,3s²,3p⁶,4s⁶ C. 1s²,2s²,2p⁶ D. 1s²,2s²,3s²,3p³
632	Which one of the following compounds will decolorized both acidified KMnO4 and aqueous bromine.	A. Benzene B. Ethane C. Ethene D. Methane
633	The oxides of beryllium are	A. Basicity B. Rancidity C. Amphoteric D. none of all
	Which of these polymers is a	A. Animal fat B. Starch

634	Which of these polymers is a synthetic polymer	B. Starch C. Cellulose D. Polyester
635	Which one of the following compounds of lead is red in colour	A. PbO B. Pb2O C. Pb3O4 D. PbCO3
636	The amount of free fatty acid in fats and oil is determined by	A. Iodine number B. Acid number C. Saponification number D. Gold number
637	Majority of the elements of the periodic table are.	A. Semi metals B. Non metals C. Metals D. Noble metals
638	A gas decolorizes alkaline KMnO4 but has no action with ammoniacal AgNO3, this gas may be	A. C2H2 B. C2H4 C. C2H6 D. CH4
639	Correct order according to atomic size in the following is	A. Na > K B. Be > Mg C. O > N D. Cl > F
640	Group VI B to transition elements contains	A. Zn, Cd, Hg B. Fe, Ru, OS C. Cr, MO, W D. Mn, Te, Re
641	Which one of the following polymers is called a polyamide	A. Nylon B. Rayon C. Terylene D. Orlon
642	Role of H2S in the given chemical reaction is H2S + I2---------- 2HI+S	A. Oxidising agent B. Reducing agent C. Dehydrating agent D. As an acid
643	Which alkyl halide does not form Grignard's reagent.	A. CH3-Br B. CH3-Cl C. CH3- F D. CH3-I
644	Oxime is an addition product obtained when aldehydes react with.	A. HCN B. NH2OH C. Phenyl hydrazine D. H2O
645	Which metal oxide is insoluble in water	A. MgO B. CaO C. SrO D. BaO
646	When methane reacts with Cl2 is commonly known as	A. Mustard gas B. Laughing gas C. Phosgene gas D. Bio gas
647	The benzene molecule contains.	A. Three double bonds B. Two double bonds C. One double bonds D. Delocalized sigma electron charge
648	Out of all the elements of Group V-A the highest ionization energy is possessed by	A. N B. P C. Sb D. Bi
649	Which one of the following will be required to form ethene from ethyl chloride.	A. Alcoholic KOH B. Aqueous KOH C. Alkaline KMnO4 D. Bromine
650	Which one of the following acids acts as oxidizing agent but never a reducing agent.	A. HClO B. HClO2 C. HClO3 D. HClO4
651	In pyrite burner, the gas produced is.	A. SO3 B. SO2 C. CO2 D. NO

652	First organic compound prepared in laboratory was.	A. Glucose B. Methane C. Urea D. Alcohol
653	Co-ordination number of Cu in	A. Zero B. Two C. Four D. Six
654	Ozone depletion in stratosphere region is mainly due to the reaction of O3 with	A. O2 B. SO2 C. CFCs D. All of these
655	The aqueous solution of Borax	A. Acidic B. alkaline C. Amphoteric D. manual
656	Which catalyst is used Friedel Crafts reactions	A. AlCl₃ B. BeCl₂ C. NaCl D. HNO₃
657	Which one of the following alcohols will be formed when ethyl magnesium bromide reacts with acetone.	A. Primary alcohol B. Secondary alcohol C. Tertiary alcohol D. Dehydrin alcohol
658	Paraldehyde is polymer of.	A. HCHO B. CH3CHO C. CH3COCH3 D. CH3CH2-CH2OH
659	Phosphorus helps in the growth of	A. Root B. Leave C. Stem D. Seed
660	The halogens ae best described by which of the following statements.	A. Their outer shell is complete B. Most of them are colourless C. They all are oxidizing agent D. They all are gases at room temperature
661	Colour of K2Cr2O7 is	A. Red B. Orange C. Green D. Yellow
662	Structure of carbonyl is	A. Tetrahedral B. Linear C. Octahederal D. Trigonal planar
663	When CO2 is made to react with ethyl magnesium iodide, followed by acid hydrolysis, the product formed is.	A. Propane B. Propanoic acid C. Propanal D. Propanol
664	Al reacts with caustic soda to form	A. Sodium aluminates B. Aluminium hydroxide C. Aluminium oxide D. sodium tetra aluminate
665	Water will be considered polluted if it has dissolved oxygen.	A. 3ppm B. 4ppm C. 5ppm D. 6 ppm
666	The oligosaccharides contain number of hexose unit.	A. 2 to 7 B. 2 to 8 C. 2 to 9 D. 2 to 100
667	Ethanol can be converted into ethanoic acid by	A. Hydrogenation B. Hydration C. Oxidation D. Fermentation
668	Which is not a calcarious material.	A. Lime B. Clay C. Marble D. Marine shell
669	Which element form maximum compounds with Xenon	A. F B. Cl C. Br D. I

670	Which enzyme is not involved in fermentation of starch.	A. Diastase B. Zymase C. Urease D. Invertase
671	The most reactive Alkyl halide is	A. Alkyl Iodide B. Alkyl Bromide C. Alkyl fluoride D. Alkyl Chloride
672	Which one of the following substances have garlic odour and a colourless gas.	A. CH3OH B. HCOOH C. CH2=CH2 D. HC= CH
673	Which ether is symmetrical in nature.	A. Methyl ethyl ether B. Diphenyl ether C. Methyl n propyl other D. Methoxy benzene
674	Which oxide is more basic in nature.	A. Beo B. MgO C. CaO D. BaO
675	Bromine can be liberated from KBr solution by the action of.	A. I2 solution B. Chlorine C. NaCl D. KI
676	The mineral $CaSO_4.2H_2O$ has the general name	A. Dolomite B. Gypsum C. Calcite D. Epsom Salt
677	In primary alkyl halides, the halogen atom is attached to a carbon which is further attached to how many carbon atoms	A. Two B. Three C. One D. Four
678	The chief of aluminum is	A. Na₃AlF₆ B. Al₂O₃.2H₂O C. Al₂O₃ D. Al₂O₃.H₂O
679	Which substance is used to consulate rubber latex	A. Ethyl alcohol B. Acetaldehyde C. Acetic acid D. Water
680	The first ionization energy of Na, Mg, Al and Si are in theorder of.	A. Na < Mg < Al < Si B. Na > Mg> Al> Si C. Na > Mg< Al< Si D. Na< Mg> Al< Si
681	Which one of the following macromolecules contains carbon, hydrogen, nitrogen and oxygen in it.	A. Nylon-6,6 B. Terylene C. Starch D. Bakelite
682	A carboxylic acid contains	A. A hydroxyl group B. A carboxyl group C. A hydroxyl and carboxyl group D. A carboxyl and an aldehydic group
683	When carbon di oxide is bubbled through lime water, white precipitate is formed This precipitate is.	A. COCl2 B. H2CO3 C. CaO D. CaCO3
684	Which halogen occurs naturally in a positive oxidation state	A. Fluorine B. Chlorine C. Bromine D. Iodine
685	Chemical formula of stibnite on.	A. BaSO4 B. Sb2S3 C. FeS2 D. ZnS
686	During the manufacturing process of cement the temperature of the decomposition zone goes up to	A. 600°C B. 800°C C. 1000°C D. 1200°C
		A. HCl

687	Which acid can not be stored in glass bottles.	B. HF C. H2SO4 D. HNO3
688	As you proceed across a period in the periodic table the first ionization energy	A. Decrease B. Increase C. Remains constant D. First increase up the middle of period and then decreases
689	Which meal is least reactive	A. Li B. NaOH C. K D. Pb
690	Alkali metal whose carbonate is is relatively less stable and decomposes giving its oxides is.	A. Li B. Ba C. K D. Rb
691	What are the total numbers of periods in the modern periodic table	A. 3 B. 5 C. 7 D. 8
692	The brown gas formed when metal reduces HNO3 is	A. N2O5 B. N2O3 C. NO2 D. NO
693	Which one is not use of lime	A. Extraction of metals B. Ceramic industry C. Preparation of bleaching powder D. Preparation of gypsum
694	---------- is not a nucleophile	A. H₂O B. NO₃ C. BF₃ D. NH₃
695	In which country first of all paper was invented	A. USA B. China C. Egypt D. Germany
696	Raney Nickel is	A. Nickel compound B. Naturally occurring nickel C. Spongy form of a nickel D. Alloy of nickel
697	Which gas act as 'Blistering agent'	A. Acetylene B. Phosphine C. Phosgene D. Mustard gas
698	In which compound, the oxidation state of boron in not +3	A. H2BO3 B. Ca2B2O11 C. Na2B4O7 D. Mg3B2
699	Aluminum reacts with nitrogen to form	A. AlN B. Al₂N C. Al₂N₃ D. Al₄N₆
700	Most likely product formed when formic acid is dehydrated in the presence of conc. H2SO4 is.	A. CO2 and H2O B. CO, CO2 and H2O C. CO2 and H2 D. CO and H2O
701	Which one of the following elements shows variable valency, can act as a catalyst and form coloured compounds.	A. Carbon B. Chlorine C. Sulpur D. Iron
702	The IUPAC name of CH3OCH6H5 is	A. Methyl phenyl ether B. Methaoxy benzene C. Phenoxy methane D. methoxy phenyl
703	On earth polar ice caps and glacier contains H2O	A. 1% B. 2% C. 3% D. 10%
704	Cholesterol is a	A. Glyceride B. Wax C. Steroid

		D. Fat
705	Boric acid is used as eye wash due to its	A. Weakly acidic property B. Antiseptic nature C. Antibiotic nature D. Weakly basic properties
706	NO2 can be obtained by heating.	A. NaNO3 B. KNO3 C. Pb(NO3)2 D. NH3NO3
707	Which one of halogens is a liquid	A. F₂ B. Cl₂ C. Br₂ D. I₂
708	The avoid the formation of toxic compounds with chlorine which substance is used for disinfecting water	A. KMnO₄ B. O₃ C. Alums D. Chloramines
709	Which one of the following compounds is most abundant is nature.	A. glucose B. Starch C. Cellulose D. Fructose
710	Which one does not belong to the alkaline earth metals	A. Be B. Ba C. Ra D. Rn
711	Which group when attached with benzene increases electron density of ring.	A. -COOH B. -NO C. -CHO D. -CH3
712	Which is not a calcarious material	A. Clay B. Limestone C. Marble D. Chalk
713	Which one of the following reactants will be required to form ethyl alcohol form ethyl bromide.	A. Alcoholic KOH B. Aqueous KOH C. Alkaline KMnO4 D. Sodium metal in ether
714	In [Co(NH3)6]+3 the coordination number of cobalt is.	A. Zero B. Two C. Four D. Six
715	Which of these polymers is a synthetic polymer	A. Animal fat B. Starch C. Cellulose D. polyester
716	Common names of aldehydes are derived from the common names of.	A. Alcohol B. Ketones C. Carboxylic acids D. Alkenes
717	Which three elements are needed for the healthy growth of plants	A. N,S,P B. N,Ca,P C. N,P,K D. N,K,C
718	A single chloride free radical can destroy how many ozone molecules	A. 100 B. 100,000 C. 100,00 D. unlimited
719	Venyl acetylene combines with HCl in	A. Polyacetylene B. Benzene C. Chloroprene D. divinyl acetylene
720	The chemical formula of Sodium Bromite is.	A. NaBrO B. NaBrO2 C. NaBrO3 D. NaBrO4
721	The carbon atom of carbonyl group is hybridized	A. Sp B. Sp² C. Sp³ D. dsp²
	Which substance is formed by the catalytic oxidation of	A. Methanol

722	the catalytic oxidation of methane at 100 ^{o}C, 200 atmospheric pressure and copper catalyst	B. Methanal C. Methanoic acid D. All of these
723	Phenol when distilled with zinc dust gives.	A. Toluene B. Benzaldehyde C. Benzoic acid D. Benzene
724	Colour of which halogen is not correctly related.	A. F2 --- colourless gas B. Cl2---- greenish yellow gas C. Br2----- Reddish brown liquid D. I2-------- grayish Black solid
725	_____ is use as a cooling medium for nuclear reactors	A. Ne B. He C. Ar D. Kr
726	Rectified spirit contains alcohol about	A. 80% B. 85% C. 90% D. 95%
727	Which of the following is not directly prepared from CH_3COOH	A. Ethyl acetate B. Acetyl chloride C. Acetic anhydride D. Acetamide
728	How many zones through which the charge passes in a rotary kiln	A. 4 B. 3 C. 2 D. 5
729	Chile saltpeter has the chemical formal	A. NaNO₃ B. KNO₂ C. Na₂B₄O₇ D. Na₂CO₃.H₂O
730	The pH range of the acid rain is.	A. 7-6.5 B. 6.5-6 C. 6-6.5 D. Less than 5
731	Which one of the following gases is used for artificial ripening of fruits	A. Ethene B. Ethyne C. Methane D. Propane
732	Boron usually exist in nature as	A. Borides B. Oxborates C. Free element D. It is a artificial element
733	The benzene molecule contains	A. three double bonds B. two double bonds C. one double bond D. delocalized pie-electron charge
734	Acetic acid form a dimer in liquid phase because.	A. Low ionization constant of acid B. High solubility in water C. Hydrogen bonding D. Greater polarity
735	Which is simplest amino acid	A. Alanine B. Protein C. Lysine D. Glycine
736	Which one is neutral amino acid	A. Lysine B. Histidine C. Glutamic acid D. Valine
737	In fluorescent tube, the gas filled is.	A. He B. Ne C. Ar D. Xe
738	One of following is argillaceous material	A. Marble B. Clay C. Lime D. Marine Shell
739	A single chloride free radical can destroy how many ozone molecules.	A. 100 B. 100000 C. 10000 D. 10

		D. 16
740	Phosphorous helps the growth of	A. root B. leave C. stem D. seed
741	Alkyl halides are considered to be very reactive compounds towards nucleophile because	A. They have an electrophilic carbon B. They have an electrophilic carbon and a good leaving group C. They have an electrophilic carbon and a bed leaving group D. They have a nucleophilic carbon and a good leaving group
742	Which is not an ore of iron	A. haematite B. Magnetite C. limonite D. Cassiterite
743	P2O5 is usually used as	A. Drying agent only B. Reducing agent C. Both drying and reducing agent D. Both drying agent and oxidizing agent.
744	-SH Functional group is called	A. Cyano B. Mercapto C. Nitro D. Carboxyl
745	When ethyl alcohol is heated with conc. H2SO4 it produces ethene. The temperature required is as proximately	A. 100 ^oC B. 78 ^oC C. Above 200 ^oC D. 140- 170 ^oC
746	The correct name of CH3-CH= CH2-OH is	A. 2-buten -4 -ol B. 3-buten-l-ol C. 2-Buten -l-ol D. Ethylene glycol
747	Ketones are prepared by the oxidation of.	A. Primary alcohol B. Secondary alcohol C. Tertiary alcohol D. None of these
748	Which process of pulp making is mostly used in Pakistan.	A. Kraft process B. Sulphite process C. Neutral sulphite semi chemical process D. Wet process
749	On heating aldehydes with Fehling's solution we get a precipitate whose colour is	A. Pink B. Black C. Yellow D. Brick red
750	The addition of unsymmetrical reagent to an unsymmetrical alkene is in accordance with the rule	A. Hund's rule B. Markowikov's rule C. Pauli's Exclusion Principle D. Aufbau Principle
751	Which halogen occurs naturally in a positive oxidation state.	A. Fluorine B. Chlorine C. Bromine D. Iodine
752	The structure of Benzene is	A. Hexagonal irregular B. Tetrahedral C. Trigonal planner D. Hexagonal planner
753	Whcih water will be considered as polluted water.	A. High value of COD B. Low value of COD C. High value of DO D. Low value of BOD
754	Ionic Hydrides react with water to form	A. Proton B. Hydride ions C. Hydroxide ions D. Hydronium ions
755	Which has greater hydration energy.	A. Li+ B. Na+ C. K+ D. Mg+2
756	Bone ash contain calcium phosphate	A. 40% B. 50% C. 70% D. 80%
757	Which one of the following is secondary pollutant of	A. CO B. NO2 C. SO2

	atmosphere.	C. SO2 D. H2SO4
758	The general representation for Grignard reagent is.	A. RMgX B. ReMgX C. RXMg D. RMgX2
759	Which halogen will react spontaneously with Au(s) to produce Au^{3+}	A. Br₂ B. F₂ C. I₂ D. Cl₂
760	Ethanol on dehydration can be changed to	A. Ethene B. Diethyl ether C. Both 'a' and 'b' D. None of these
761	The presence of a double bond in a compound is the sign of.	A. Saturation B. Unsaturation C. Substitution D. None of these
762	Preparation of vegetable ghee involves.	A. Halogenation B. Hydrogenation C. Hydroxylation D. Dehydrogenation
763	Reverse of esterification is known as	A. Trans esterification B. Saponification C. Hydrolysis D. Neutralization
764	The pH of truly acidic rain is	A. 7-6.8 B. 6.5-6 C. 6-5.6 D. less than 5
765	Which complex shows zero oxidation state of the transition metal.	A. [Fe(CO)5] B. K3[Fe(CN)6] C. K2[Fe(CN)6] D. [Cu(NH3)4]SO4
766	Effect of substituent on benzene ring is due to	A. Resonance B. Inductive effect C. Both a and b D. Neither a nor b
767	The state of hybridization of "C" in ethane is	A. SP B. sp² C. dsp² D. sp³
768	Wohler synthesized first organic compound in laboratory from	A. Heating cyanogen's B. Cyanogen and ammonium chloride solution C. Cyanogen and HNO2 D. Heating ammonium cyanate
769	SN1 reaction usually occurs in	A. Primary alkyl halides B. Secondary alkyl halides C. Tertiary alkyl halides D. All of these
770	Which one of the following is not an alkali metal.	A. Francium B. Cesium C. Rubidium D. Radium
771	Which one of the following comp9ounds on hydrolysis will not produce a carboxylic acid.	A. Alkyl halide B. Alkyl Nitrite C. Addition product of Grignard reagent and CO2 D. Ester boiled with sodium hydroxide
772	Variable valency is generally exhibited by	A. Transition elements B. Alkali metals C. s-block elements D. Gaseous elements
773	Which one of the following compounds is a heterocyclic.	A. Anthracene B. Phenol C. Pyridine D. Aniline
774	Ethanol reacts with Na metal to form sodium ethoxide. What product will be formed when C2H5ONa reacts with methyl bromide.	A. C2H5OC2H5 B. C2H5OCH3 C. CH3COC2H5 D. C2H5Br and NaBr
	Which one of the following is	A. Water is a polar

775	Which one of the followings is not observed in the combustion of pure methane in a plentiful supply of air	A. Water in produced B. CO2 is produced C. The flame is smoky D. Energy is released
776	Among the following the compound that can be most readily suphonted is.	A. Toluene B. Benzene C. Nitrobenzene D. Chlorobenzene
777	SN2 reactions can be best carried out with	A. Primary alkyl halides B. Secondary alkyl halides C. Tertiary alkyl halides D. All the three
778	Which of the following gas will turn lime water milky	A. Cl₂ B. NO₂ C. CO D. CO₂
779	XeF6 n hydrolysis produces.	A. XeOF2 B. XeOF3 C. XeOF4 D. XeF2
780	Formation of cyanohydrin from an aldehyde in an example of.	A. Nucleophilic substitution B. Nucleophilic addition C. Electrophilic addition D. Electrophilic substitution
781	The avoid teh formation of toxic compounds with chlorine which substance is used for disinfecting water.	A. KMnO4 B. O3 C. Alum D. Chloramines
782	Fungicides are the pesticides which	A. Control the growth of fungus B. Kill insects C. Kill plants D. Kill herbs
783	Which of the following lipids does not have glycerol backbone.	A. Fat B. Oil C. Cholesterol D. Phospholipid
784	An ester can be prepared by the reaction of.	A. Two alcohols B. Alcohol and an aldehyde C. An alcohol and an organic acid D. an acid and a ketone
785	Which one is basic amino acid	A. Lysine B. Alanine C. Glycine D. Aspartic acid
786	Galvanized iron is protected by a thin layer of	A. Cr B. Zn C. Sn D. Pb
787	In water the concentration of dissolved O_2should be	A. 1-3 ppm B. 2-4 ppm C. 4-8 ppm D. 8-12 ppm
788	The residence time of NO is	A. Few hours B. 1 day C. 3 days D. 4 days
789	Which is the second most abundant element in the universe	A. H B. He C. CO D. C
790	Chile saltpeter has the chemical formula	A. NaNO3 B. KNO3 C. Na2B4O7 D. Na2CO3.H2O
791	The isomers having same functional group but different alkyl group on either side of functional group are called.	A. Metamers B. Polymers C. Monomers D. Homologous series
792	Acetone reacts with HCN to form cyanohydrin it is an example of	A. Electrophilic addition B. Electrophilic substitution C. Nucleophilic addition D. Nucleophilic subtitution

793	Which reaction is disproportionate reaction	A. Aldol Condensation B. Cannizzaros's reaction C. Haloform reactions D. Acid-catalyzed reactions
794	Half mass of atmosphere gases is present in.	A. 5-6 km distance above the surface of earth B. 10 km above the surface C. 100 km above the surface D. 56 km above the surface
795	Which one is a disaccharide	A. Glucose B. Sucrose C. Fructose D. Cellulose
796	The nitrogen present in some fertilizers helps plants	A. to fight against diseases B. to produce fat C. to undergo photosynthesis D. to produce protien
797	The total number of transition element is	A. 10 B. 14 C. 40 D. 58
798	Which set of Hybrid orbital has planner triangular shape	A. sp B. sp² C. dsp² D. sp³
799	The nitrogen present to some fertilizers helps plants to	A. Fight against diseases B. Produce fat C. Undergo photosynthesis D. Produce protein
800	What product are formed by the oxidative cleavage of 2-butene by alkaline KMnO4.	A. Propionic acid and formic acid B. Ethanoic acid only C. Ethanal only D. Water and ethanol
801	Which substance is used ot bleach the pulp.	A. Na2SO3 B. NaCl C. NaClO D. NaOH
802	The process in when alkene are converted into carboxylic acid is known as	A. Oxidation B. Reduction C. Hydrolysis D. Hydration
803	Which metal is used in the thermite process because of its activity.	A. Iron B. Copper C. Aluminium D. Zinc
804	The colour of transition metal complexes is due to	A. d-d transition of electrons B. Paramagnetic nature of transition elements C. Ionization D. Loss of s -electrons
805	Sodalime is	A. NaOH B. Mixture of Na and Ca(OH)2 C. KOH D. Mixture of CaO and NaOH
806	when aldehydes react with Tollen's reagent.	A. A ketone is produced B. An alcohol is produced C. Ag ions are produced D. Ag ions are reduced
807	The length of the polymer chain is specified by the number of repeating units which is called.	A. Condensation B. Co-polymerization C. Iodine number D. Degree of polymerization
808	The reactivity order of alkyl halides for a particular alkyl group is.	A. Fluoride > Chloride > Bromide > Iodide B. Chloride > Bromide >Chloride > Fluoride C. Iodide > Bromide > Chloride > Fluoride D. Bromide > Iodide > Chloride > Fluoride
809	Linear shape is associated with set of hybrid orbitals	A. SP B. sp² C. dsp² D. sp³
810	The number of peptide bonds in dipeptide is	A. 0 B. 1 C. 2

	in dipeptide is	C. 2 D. 3
811	Ammonia is prepared industrially by	A. Contact process B. Ostwald process C. Birkland Eyed process D. Heber process
812	Which elements are deposited at the cathode during the electrolysis of brine in diaphragm cell	A. H₂ B. Ba C. Ra D. Rn
813	The strength of binding energy of transition elements depends upon	A. number of electron pairs B. number of unpaired electron pairs C. number of neutrons D. number of protons
814	The substance that retard the activity of enzyme is called.	A. Co enzyme B. Epo enzyme C. Activity D. Substrate
815	Bleaching powder contains available chlorine approximately	A. 100% B. 70-80% C. 35-40% D. 10-20%
816	Co-ordination number of Pt in Pt $Cl(NO_2)(NH_3)_4$	A. 2- B. 4 C. 1 D. 6
817	In which ore carbon is present	A. Magnesite B. Epsom salt C. Barite D. Sylvite
818	An element has oxidation state -2, +4, +6 in its compounds. In which group in the periodic table is this element likely to be.	A. Grooup III A B. Group IV A C. Group V A D. Group VI A
819	The electrophile in Aromatic sulphonation is	A. H₂SO₄ B. HSO₄¹⁻ C. SO₃ D. SO₃¹⁺
820	Which one of the following set of raw material is most suitable for manufacture of urea.	A. CH4, N2 and CO2 B. H2, N2 and CO C. H2,CO2 and H2O D. H2O, N2 and H2
821	Which of the following the highest hydration energy	A. Li⁺ B. Na⁺ C. K⁺ D. Mg⁺⁺
822	What criteria did Mendeleev use in arranging his periodic table.	A. Atomic mass B. Atomic number C. Mass number D. Density
823	Chlorine heptoxide (Cl_2O_7) reacts with water to form	A. Hypochlorous acid B. Chloric acid C. Perchloric acid D. Chlorine and oxygen
824	The enzyme which bring about exchange of functional group between two compounds is called.	A. Hydrolases B. Transferase C. Lyases D. Ligases
825	How much does of methanol can cause death	A. 10-15 ml B. 15-20 ml C. 100- 250 ml D. has no effect
826	Which one of the following proteins transports oxygen in blood stream.	A. Insulin B. Albumin C. Hemoglobin D. Globulin
827	Usually the percentage of moisture is paper is	A. 1- 3% B. 4-6% C. 6-8% D. 5%

828	Which statement is incorrect.	A. All the metals are good conductors of electricity B. All the metals are good conductor of heat C. All the metal form positive ions D. All the metal form acidic oxides
829	The number of possible isomers of xylene are	A. 2 B. 3 C. 4 D. 5
830	Which one is used as debydrating agent for alcohol.	A. H2SO4 B. Al2O3 C. H3PO4 D. All of these
831	Which substance usually undergo nucleophilic addition reactions.	A. Benzenes B. Aldehydes C. Alkenes D. All of these
832	Setting process of cement is based upon	A. Hydrolysis B. Hydration C. Dehydration D. Botha a and b
833	When ethyl alcohol is heated, with NH3 in presence of ThO2 then	A. O-H bond is broken B. C-O bond is broken C. Ethene is formed D. Ethane is formed
834	Which one of the following compound does not react with NaOH and I2 and also does not form Iodoform.	A. C2H5OH B. CH3CHO C. CH3-CO-CH3 D. C2H5-O-C2H5
835	Isopropyl alcohol on oxidation gives	A. Acetaldehyde B. Acetone C. Ether D. Propene
836	The IUPAC name of C(CH3)4 is	A. Iso Propyl methane B. 2-Methylbutane C. Iso bytylmethane D. 2,2 dimethylpropane
837	Which substance is used in photography	A. AgCl B. AgBr C. AgI D. Ag3PO4
838	Which is more basic	A. RbOH B. NaOH C. KOH D. Li OH
839	Stability of halogen molecules decreases from	A. F2 to I1 B. Cl2 to I2 C. I2 to F2 D. I2 to Cl2
840	Which element forms on ion wiht charge 3+	A. Beryllium B. Aluminium C. Carbon D. silicon
841	Point out the element which forms super oxide	A. Li B. Na C. K D. C
842	Preparation of vegetable ghee involves	A. Halogenation B. Hydrogenation C. Hydroxylation D. Dehydrogenation
843	The temperature of digester is main tained at	A. 100^oC B. 160-180^oC C. 200^oC D. 200-240^oC
844	Tincal is a mineral of	A. Al B. C C. Si D. B
845	Which substance shows very weak hydrogen bonding with water.	A. Methanol B. Ethanol C. Diethyl ether D. Benzene

846	The element which is present in earth crust about 50% is	A. Oxygen B. sulphur C. Carbon D. Nitrogen
847	Which one of the following compounds is not derivative of NH3.	A. Aniline B. Hydrazine C. Phenyl hydrazine D. Picric acid
848	Dennturing of protein is	A. Hydrolysis of protein B. Unfolding of protein C. Three dimensional twisting and folding of peptide chain D. Developing hydrogen bonding in peptide chain
849	Which one is not a meta directing group	A. -COOH B. -CHO C. -COR D. -NH₂
850	Nelson's cell is used to prepare	A. NaOH B. Na₂CO₃ C. Na metal D. NaCl
851	Which acid is used in the manufacture of synthetic fibre	A. Formic acid B. Oxalic acid C. Carbonic acid D. Acetic acid
852	The fiber which is made from acrylonitrile as monomer	A. PVC B. Polyester fiber C. Rayon fiber D. Acrylic fiber
853	A caboxylic acid contains	A. a hydroxyl group B. a caboxyl group C. a hydroxyl and carboxyl group D. a carboxyl and an aldehyde group
854	The word alkali is derived from which language	A. Arabic B. Greek C. French D. German
855	Which one of the following is inorganic fertilizer.	A. Manure B. Urea C. Ammonium nitrate D. All of these
856	SO2 is not absorbed in water directly to form H2SO4 because.	A. The reaction does not go to completion B. The reaction is quite slow C. The reaction is exothermic D. SO3 is insoluble in water
857	When $CO_2$is made to react with ethyl-magnesium iodide followed by acid hydrolysis, the product formed is	A. Propane B. Propanoic acid C. Propanal D. Propanol