

MDCAT Chemistry Chapter 22 Online Test

Sr	Questions	Answers Choice
1	Insoluble ferric oxide is produced in the pH range:	A. 1 to 8 B. 6 to 9 C. 3 to 13 D. 8 to 13
2	Ozone in most of the tropical regions acts as a pollutant and causes	A. Damages to eyes B. Aggravates asthma C. Chest discomfort D. All of these
3	Solid waste of the city is disposed off by dumping in a landfill. Which of the following gas is produced in the landfill	A. Oxygen B. Chlorine C. Hydrogen sulphide D. Hydrogen chloride gas
4	Water cover earth surface more than:	A. 50% B. 60% C. 70% D. 80%
5	Ozone in stratosphere extends upto km:	A. 0-15 km B. 10-15 km C. 15-40 km D. 15-25 km
6	Lanthanides and actinides belong to following group of periodic table:	A. IB B. VIIB C. IIIB D. IIIB
7	Electropositive character increases down the groups due to:	A. Increase in atomic size of the elements B. Decrease in ionization potential C. Decreases in electronegativity of the element D. All the above
8	The temperature range in the incineration of industrial and hazardous waste process has	A. 900 - 1000°C B. 250 - 500°C C. 950 - 1300°C D. 500 - 900°C
9	Soil remediation means	A. to make it suitable for cultivation of crops B. to make it acidic C. to make it alkaline D. to add manure into it
10	Out of total amount of water available for human use is	A. 0.30% B. 0.2% C. 40% D. 50%
11	Air pollution causes	A. Acid rain B. Ozone depletion C. Green House Effect D. All
12	Value of chemical oxygen demand (COD) is a measure of chemically oxidizable matter in water. Which value of COD will indicate more polluted water	A. low value B. higher value C. both values D. none of these
13	What is the molarity of a solution containing 15g of urea in 500cm ³ of solution?	A. 1M B. 0.5M C. 2M D. 1.5M
14	The respiration process taking place in animals depends on a difference in	A. Partial pressure B. Osmotic pressure C. Vapour pressure D. All

		D. Atomospheric pressure
15	Chemical like $\text{Al}_2(\text{SO}_4)$ or alum are used in purification of water druing step:	A. aeration B. coagulation C. chlorination D. treatment
16	99.5% mass of lithosphere is made of	A. 03 elements B. 8 elements C. 11 elements D. 15 elements
17	Which of the following air pollutant is called quiet killer	A. PAN B. CO C. NO_3 D. SO_3
18	Water is made disinfectant during purification of water to the step:	A. aeration B. coagulation C. chlorination D. treatment
19	The toxic organic compounds and heavy metals and metalloids results in contamination of	A. surface water B. ground water C. both surface and ground water D. neither surface nor ground waters
20	Elevated concentration of _____ is harmful for fish as it clog the gills causing suffocation	A. Al B. Hg C. As D. Cr(vi)
21	Chlorofluorocarbons and aerosols are inert in sphere:	A. troposphere B. stratosphere C. lithosphere D. hydrosphere
22	Which step is unnecessary for purification of water for drinking purposes	A. aeration B. coagulation C. treatment with chlorine D. treatment with iodine
23	A single chlorine free radical can destory how many ozone molecules	A. 10 B. 100 C. 1000 D. 10000
24	Peroxyacetylnitrate (PAN) is an irritant to human beings and it affects:	A. Eyes B. Ears C. Stomach D. Nose
25	Unit of ozone is?	A. Debye B. Dobson C. Esu D. Coulumb
26	The incineration may reduce volume of wastes upto:	A. 1/4th B. 1/2nd C. 2/3rd D. 3/4th
27	The largest item which is recycled is	A. newspaper B. plastic C. aluminium D. oil
28	Forms of waste products:	A. Heat B. Smoke C. Solid D. All of these
29	Which one of the pollutants of automobile exhausts affects the nervous system or produces mental diseases	A. NO_2 B. SO_2 C. Hg D. Pb
30	In the atmosphere, O_2 is about	A. 10% B. 15% C. 21% D. 25%
31	The amount of Si in the lithosphere is about	A. 27.72% B. 30.35% C. 35.30% D. 40.21%

32	Major cause of SO ₂ on global scale is	<p>family: Verdana, Tahoma; font-size: 12px;">Volcanoes</p> <p>B. Electric sparks</p> <p>C. Combustion</p> <p>D. All</p>
33	Chemicals used to kill pests are:	<p>A. Herbicides</p> <p>B. Insecticides</p> <p>C. Pesticides</p> <p>D. fungicides</p>
34	SO ₂ and NO ₂ cause pollution due to increase in	<p>A. Buffer action</p> <p>B. Basicity</p> <p>C. Acidity</p> <p>D. Neutrality</p>
35	Temporary hardness can be removed by adding	<p>A. Lime</p> <p>B. Carbon</p> <p>C. Oxygen</p> <p>D. Slaked lime</p>
36	During thunderstorms, water dissolves	<p>A. Dust particles</p> <p>B. HCl</p> <p>C. Nitric acid</p> <p>D. Clouds</p>
37	Suspended matter is settled in purification of water by:	<p>A. aeration</p> <p>B. coagulation</p> <p>C. chlorination</p> <p>D. treatment</p>
38	Rigid rocky crust earth upto a depth of 100 km is called:	<p>A. Atmosphere</p> <p>B. Hydrosphere</p> <p>C. Lithosphere</p> <p>D. All of these</p>
39	COD of water can be measured by	<p>A. Cr₂O₃</p> <p>B. Cr₂O₄</p> <p>C. Cr₂O₇</p> <p>D. None of these</p>
40	Pathogens in raw water are killed in step:	<p>A. aeration</p> <p>B. coagulation</p> <p>C. chlorination</p> <p>D. treatment</p>
41	Components of environment is (in km) around the earth:	<p>A. 10 km</p> <p>B. 100 km</p> <p>C. 1000 km</p> <p>D. 1500 km</p>
42	As the number of carbon atoms increase the number of isomers also increase. The six carbon compound hexane has as many as:	<p>A. 10 isomers</p> <p>B. 3 isomers</p> <p>C. 5 isomers</p> <p>D. 6 isomers</p>
43	HOCl is a compound:	<p>A. Polar inorganic</p> <p>B. organic</p> <p>C. Ionic</p> <p>D. covalant</p>
44	Chemicals used to kill fungi are:	<p>A. Herbicides</p> <p>B. Insecticides</p> <p>C. Pesticides</p> <p>D. fungicides</p>
45	Which of the following is not a heavy industry?	<p>A. Iron</p> <p>B. Fertilize</p> <p>C. Paper</p>

D. None

46	During incineration temperature range of non-rotating chamber is	A. 900-1000C° B. 650-1100C° C. 950-1300C° D. 700-900C°
47	Fresh water of total earth water is:	A. 1% B. 2% C. 3% D. 4%
48	Coal contains percentage of sulphur:	A. 1-9% B. 5-9% C. 6-9% D. 7-9%
49	Detergents are surfactants and they reduce the	A. B.P. of water B. Surface tension of water C. Wetting ability of water D. None of these
50	The 95.5% mass of Lithoshone is made of 11 elements i.e O ₂ , Si, Al, Fe, Ca, Na, K, Mg, Ti, H ₂ and P. Which element is present in trace amount	A. iodine B. bromine C. lead D. carbon
51	Organic pollutants in water are measured by	A. DO B. COD C. Water logging D. PH
52	Which is not the condition for the formation of smog	A. there must be sufficient NO gas B. there must be sunlight to help photo chemical reactions to take place C. air must be blowing swiftly D. there must be SO ₂ in the air
53	Why is carbon monoxide called as pollutant? The reason is that	A. It combines with oxygen B. It combines with haemoglobin C. It inactivates glycolysis D. It inactivates nerves
54	Which of the following is not a secondary pollutant	A. Ozone B. Carbonic acid C. Sulphuric acid D. Carbon dioxide
55	Nitrogen percentage in atmosphere is:	A. 76% B. 77% C. 78% D. 79%
56	Nitrogen in the atmosphere is:	A. 78% B. 21% C. 0.9% D. 0.03%
57	Surface and ground water sources are contaminated by various human activities. Which of the following is not human activity that causes contamination in fresh water	A. Live stock waste B. Oil leaks and spills C. Desposal of industrial effluents D. Rain
58	The pH range of the acid rain is	A. 6.5 - 6 B. Less than 5 C. 8 - 7.5 D. 7 - 6.5
59	Fungicides are the pesticides which	A. Kill plants B. Kill herbs C. Kill insects D. Control the growth of fungus
60	Water which his considered to be safe for human consumption is known as	A. distilled water B. contaminated water C. potable water D. rain water

61	A pollutant affects	A. Human affects B. Quality of life C. Functioning of ecosystem D. All of these
62	The ozone depletion in the stratosphere is mainly due to the reaction of ozone with	A. Freons B. CFCs C. Both A and B D. None
63	In water the most important oxidizing agent is dissolved molecular oxygen which ranges form	A. 2 - 4 ppm B. 4 - 6 ppm C. 2 - 5 ppm D. 4 - 8 ppm
64	Which is used as a coagulant:	A. Ferric salts B. Potash alum C. a and b both D. Chlorine
65	Commonly used coagulants are ions of:	A. Ferrous B. Al C. Cr D. Ferric
66	How much quantity of water is in the domestic use	A. 0.08% B. 16% C. 24% D. 90%
67	A large hole in the ozone layer over antarctica region was discovered in:	A. 1960s B. 1970s C. 1980s D. 1990s
68	The scope of environmental chemistry is to study:	A. Source of chemicals B. Transportation of chemicals C. Transportation of toxic chemical D. All of these
69	BOD is the oxygen demand with in day(s):	A. Four B. Two C. Three D. Five
70	The cause of minamata disease is the pollution of	A. Arsenic (As) into atomosphere B. Industrial waste having Hg C. Organic waste in drinking H ₂ O D. Oil spills in H ₂ O
71	Water is essential for life on	A. Moon B. Space C. Earth D. Sun
72	Ecology is a science of environment and deals specially with	A. stratosphere B. biosphere C. lithosphere D. hydrosphere
73	How can heavy metal contamination like the presence of Hg or Pb may be removed from the soil	A. by using water spray B. by blowing air C. by treating with EDTA and then flushing the heavy metal complex out of the soil D. by adding CaO
74	Chlorofluorocarbon, CF ₂ Cl ₂ , plays an effective role in removing O ₃ (ozone) in the stratosphere. Which reaction does not cause the depletion of ozone	
75	Water bodies are included in:	A. Atmosphere B. Hydrosphere C. Lithosphere D. All of these
76	The normal amount of overhead ozone is	A. 350 DU B. 450 DU C. 400 DU D. 300 DU
77	Carbon Monoxide is:	A. colouriess B. orderless C. high toxic D. All of these
		A. Softness of water

78	Addition of washing soda removes	<p>B. Temporary hardness of water</p> <p>C. Permanent hardness of water</p> <p>D. Hydrogen from water</p>
79	The words smog is a combination of smoke and:	<p>A. fog</p> <p>B. foke</p> <p>C. fork</p> <p>D. fizzy</p>
80	Oceans, rivers, streams, leaks, polar ice caps, glaciers and group water reservoirs are included in	<p>A. Atmosphere</p> <p>B. Lithosphere</p> <p>C. Hydrosphere</p> <p>D. Biosphere</p>
81	Amount of ozone in atmosphere is expressed in units:	<p>A. Kilograms</p> <p>B. cm</p> <p>C. molarity</p> <p>D. DU</p>
82	Which is unnecessary for purification of water for drinking purposes	<p>A. Coagulation</p> <p>B. Aeration</p> <p>C. Treatment with Iodine</p> <p>D. Treatment with chlorine</p>
83	Fungicides are the pesticides which:	<p>A. Control the growth of fungus</p> <p>B. Kills insects</p> <p>C. Kills plants</p> <p>D. Kill herb</p>
84	What is component of environment?	<p>A. Atmosphere</p> <p>B. Hydrosphere</p> <p>C. Lithosphere</p> <p>D. All of these</p>
85	Dissolved impurities of potable water can be separated by the process of	<p>A. reduction</p> <p>B. Aeration</p> <p>C. Electrolysis</p> <p>D. Co-angulation</p>
86	Ozone layer is	<p>A. 25 - 28 km high</p> <p>B. 26 - 29 km high</p> <p>C. 24 - 27 km high</p> <p>D. 20 - 28 km high</p>
87	Industrial effluents have toxic synthetic organic compounds as well as heavy metals like	<p>A. Pb</p> <p>B. Cr</p> <p>C. Hg</p> <p>D. All of these</p>
88	Ozone is produced in regions:	<p>A. tropical</p> <p>B. Polar</p> <p>C. antaric</p> <p>D. equator</p>
89	Hardness which can be removed by boiling is called	<p>A. Permanent hardness</p> <p>B. Temporary hardness</p> <p>C. Stiffness</p> <p>D. Toughness</p>
90	Any substance in the environment which adversely affects the human health and natural functioning of the Ecosystem is known as	<p>A. environment</p> <p>B. hydrosphere</p> <p>C. pollutant</p> <p>D. biosphere</p>
91	Ozone layer is present in	<p>A. Troposphere</p> <p>B. Stratosphere</p> <p>C. Mesosphere</p> <p>D. Ionosphere</p>
92	Which of spectral lines when atoms are subjected to strong electric field is called:	<p>A. Compton effect</p> <p>B. Stark effect</p> <p>C. Zeeman effect</p> <p>D. Photoelectric effect</p>
93	Chemical equilibrium involving reactants and products in more than one phase is called:	<p>A. Homogeneous</p> <p>B. Heterogeneous</p> <p>C. Dynamic</p> <p>D. Static</p>
		A. live stock waste

94	Ground and surface waters are contaminated and become polluted due to the human activity. Which human activity will not cause water pollution	B. agricultural pesticides C. oil beaks and spills D. all of the above
95	Which of following is primary pollutants	A. N_2O B. PAN C. H_2SO_4 D. None of these
96	Reason of pollution are:	A. Population and urbanization B. Transportation C. Industrialization D. All of these
97	Coagulation removes suspended particles in ran water:	A. 60% B. 70% C. 80% D. 90%
98	Half of the mass of atmosphere is concentrated above earth at the hieght of	A. 40 Km B. 25-28 Km C. 5-6 Km D. 100 Km
99	Which gas produces air pollution?	A. oxides of sulphur B. oxides of carbon C. all of these
100	Test of incomplete combustion of petrol in the presence of	A. CO_2 B. SO_2 C. NO_2 D. Co
101	Ph of unpolluted rain water is	A. 07 B. Less than 6 C. 5.6 D. Less than 5
102	Incineration is a process in which solid waste is burned at high temperature ranging from	A. 500 to 600°C B. 900 to 1000°C C. 1000 to 1100°C D. 600 to 700°C
103	SO ₂ makes _____ acid rains	A. carbonic acid B. Sulfuric C. Nitric acid D. All of these
104	The region of earth capable of supporting life is	A. Hydrosphere B. Lithosphere C. Biosphere D. Atmosphere
105	Property due to which water acts as a universal solvent is	A. Polarity B. It's ability to make hydrogen bond C. Both A and B D. Strong dipole dipole interaction
106	Which gas is not a constituent of atmosphere?	A. Xe B. O_3 C. H_2 D. F_2
107	Synthetic organic pesticides formulated nowadays are more then:	A. One thousand B. Ten thousand C. Two thousands D. Twenty thousand
108	Chlorination of water is effective for	A. Killing pathogens B. Removing dust C. Removing hardness D. Increasing oxygen content
109	Agriculture consumes part of fresh water:	A. 1% B. 2% C. 69% D. 23%
110	Coagulation in the purification of water is carried out by	A. Alum B. NiSO_4 C. BaSO_4 D. CuSO_4
		A. South polar region

111	Ozone is usually produced in the	B. North pole region C. Tropical region D. Thermosphere zone
112	Water which forms scum with soap is called	A. Hard water B. Soft water C. Distilled water D. Un distilled water
113	Depletion of ozone is more during the month:	A. Jan-March B. April-Jun C. July-Aug D. Sept-Nov
114	Elements in lithosphere exist generally as:	A. metals B. non-metals C. metalloids D. minerals
115	The process of coagulation can remove suspended solids in raw water about	A. 50% B. 60% C. Less than 40% D. More than 80%
116	CFCs destroy ozone layer. How many ozone molecule a chlorine free radical can destroy	A. 10,000 B. 20,000 C. 100,000 D. 50,000
117	Residence time of methane in the atmosphere is	A. 3 - 7 days B. 2 -3 days C. 3 - 7 years D. 2 - 3 years
118	The yellow color present in the photo chemical smog is due to presence of the	A. Carbon dioxide B. Nitrogen dioxide C. Chlorine D. All
119	Chemicals used to kill insects are:	A. Herbicides B. Insecticides C. Pesticides D. Fungicides
120	A chemist says that glass must be a super cooled liquid. the reason that he might have in his mind is that glass has:	A. Definite shape B. Definite volume C. Crystalline structure D. No crystalline structure
121	Which of the following human activities are contaminating surface and ground waters?	A. pesticides B. septic tanks C. petroleum and natural gas production D. all of these
122	The pH range of the acid rain is	A. 7 - 6.5 B. 6.5 - 6 C. 6 - 5.6 D. Less than 5
123	An excellent source of energy without causing pollution is	A. Fossil fuel B. Sun C. Petroleum D. Nuclear reactor
124	Which one of the following is not air pollutant gas	A. CO B. CO ₂ C. NO D. SO ₂
125	Biochemical oxygen demand is the capacity of organic matter in natural water to consume oxygen	A. 2 days B. 5 days C. 6 days D. 7 days

A. Chromium
B. Copper

126	The main pollution of leather tanneries in the waste is due to the salt of	B. Copper C. Chromium D. Lead
127	Ecosystem is a smaller unit of	A. Hydrosphere B. Lithosphere C. Biosphere D. Atmosphere
128	The gases in the atmosphere are essential for sustaining life on earth. Thus oxygen is required for breathing. What for is carbon dioxide required	A. To help plant to under go photosynthesis B. To destroy nitrogen oxide from the atmosphere C. To help to clean the atmosphere D. To help in fixing of bacteria
129	Which of the following waste material is not recycled for use again	A. Glasses B. Paper C. Plastic toys D. Hides of animals
130	Ozone in most of the tropical regions acts as a pollutant and cause	A. damages to eyes B. aggravates asthma C. chest discomfort D. all of these
131	Density of water becomes maximum at	A. >10°C B. >4°C C. >5°C D. >12°C
132	Transportation causes to produce CO ₂ in atmosphere:	A. 72% B. 73% C. 74% D. 75%
133	Alkali metals react violently with halogens:	A. Halides B. Anhydrides C. Hydrides D. None of the above
134	In purification of potable water the coagulant used is:	A. Nickel sulphate B. Copper sulphate C. Barium sulphate D. Aluminium sulphate
135	Ozone is effectively removed by	A. TNT B. CFCs C. PVC D. CNG
136	Water exist in only	A. >One state B. >Two state C. Three states D. >4 states
137	How much pesticides have been synthesized at present?	A. Four thousand B. Six thousand C. Eight thousand D. Ten thousand
138	Contamination of water of tanning industries is due to:	A. Cr(III) B. Cr(VI) C. Mn(III) D. Mn(VII)
139	Chemistry related to the study of environment affected by the chemicals and pollutants is called:	A. Biochemistry B. Physically chemistry C. Pharmaceutical chemistry D. Environmental chemistry
140	Ozone is an allotropic form of:	A. Carbon B. Phosphorus C. Oxygen D. Sulfur
141	Natural water is	A. >Pure B. >Impure C. >Acts as solute D. >Acts as solvent

		D. Distilled
142	Which of the following substance is not present in acid rain?	A. Sulphuric acid B. Nitric acid C. Sulphurous acid D. Acetic acid
143	The % of CO ₂ in the atmosphere is	A. 3.0% B. 0.03% C. 0.3% D. 0.5%
144	The Catalyst used in the contact tower for the manufacture of H ₂ SO ₄ is easily poisoned by:	A. Nitrous oxide B. Nitrogen gas C. Arsenic oxide D. Carbon dioxide
145	Which factor is helping to reduce the environment pollution	A. rapid growth population B. urbanization C. industrialization D. increase of plantation
146	Photo chemical smog contains _____ as main reactants	A. Nitrons oxide and unburnt hydrocarbons B. Nitric oxide and unburnt hydrocarbons C. No and burnt hydrocarbons D. N ₂ O and burnt hydrocarbons
147	Photochemical smog consists of higher concentration of:	A. Oxidants B. Ozone C. a & b D. NO ₃
148	Polar ice caps and glaciers consists total earth water:	A. 1% B. 2% C. 3% D. 4%
149	To purify water which has mud dissolved in it, a substance which coagulates the suspended particles is used. The coagulant may be	A. Ag ⁺ B. Cu ²⁺ C. Al ³⁺ D. Si ⁴⁺
150	Transformation is a cyclic process in which used plastic is	A. Remelted and styrene is added B. Converted into low quality substance C. Converted back into original components D. None of these
151	The normal amount of overhead ozone is about in DU:	A. 150 B. 250 C. 350 D. 450
152	Hydrosphere includes	A. Seas and rivers B. Ocean & polar ice caps C. Ground water D. All of above
153	DDT is a:	A. Fungicide B. Insecticide C. Herbicide D. All
154	The temperature in the incineration process has a range:	A. 900 to 1000 B. 650 to 1100 C. 950 to 1300

		background-clip: initial;">°C D. 500 to 900°C
155	Boron, aluminium, gallium, indium and thallium belong to group III-A of the periodic table show a decrease with increasing relative atomic mass:	A. Ionic character of the compounds B. The first ionization energy C. The basic character of the oxides D. The stability of +2 oxidation
156	Exposure to CO results in	A. Headche B. Fatigue C. Unconsciousness D. All of these
157	Which of the following does not contribute towards the formation of photochemical smog?	A. NO B. SO ₂ C. O ₃ D. Hydrocarbons
158	Which is not the affect of polluted air on environment	A. acid rain B. smog C. ozone D. global warming
159	Leaching of nutrients is due to	A. Drying of soil B. Combustion of soil C. Acidification of soil D. Neutralization of soil
160	Site of land for landfill is selected based upon.	A. topography B. location of ground C. water table D. All of these
161	The concentration of dissolved molecular oxygen in water which acts as the most important oxidizing agent ranges from	A. 2 ppm - 6 ppm B. 2 ppm - 4 ppm C. 4 ppm - 8 ppm D. 2 ppm - 3 ppm
162	Many petroleum products are:	A. coloured B. colourless C. testy D. poisoinous
163	The branch of chemistry interlinked with biology, physics, medicines, agriculture, public health and sanitary engineering etc. is:	A. Biochemistry B. Physical chemistry C. Pharmaceutical chemistry D. Environmental chemistry
164	In addition to many pollutants present in ground water, a successful study was conducted to remove a highly Toxic chemical.What chemical is this	A. Cobalt B. Nickel C. Arsenic D. Sulphur
165	Contaminated soil can be cleaned by various methods. Which method is not used to clean the soil	A. diffusion B. convection C. electrophoresis D. chromatography
166	Petroleum or crude oil is a complex mixture of compounds mainly:	A. benzene B. minerals C. hydrocarbons D. phenols
167	Acidification of soil can leach metal:	A. Al B. Hg C. Pb D. Ca
168	Hard water can block radiators due to formation of	A. Insoluble calcium and magnesium salts B. Insoluble sodium salts C. Insoluble phosphate salts D. Insoluble potassium salts
169	Which of the following is not a waste material?	A. paper B. plastic

169	Which of the following waste material is not recycled for use again	C. hides of animals D. glass
170	Eleven elements make part of earth mass:	A. 97.5% B. 98.5% C. 99.5% D. 100%
171	A single chlorine free radical of CFCs can destroy upto ozone molecules:	A. 10 B. 100 C. 1000 D. 100000
172	Increased awareness of environment issues has led chemist to develop products and processes that do not impact on the environment in terms of pollution or depletion of sources. To help chemist to achieve this aim, some principles are drawn, which one is not the guiding principle	A. avoid waste production B. use no solvent C. use a catalyst D. devise a multistep procedure for synthesis of new compounds
173	The amount of oxygen in the lithosphere is about	A. 35.50% B. 40.60% C. 46.60% D. 50.50%
174	Mean residence time of methane in atmosphere in years is:	A. 1-7 B. 2-7 C. 3-7 D. 4-7
175	It is a biodegradable pollutant	A. Salts of Hg B. DDT C. Aluminum foil D. Domestic fuel
176	One of the environment problem is the formation of oil slicks when oil is spilled from tankers in sea water. Which treatment is suitable to remove oil slicks	A. blow air B. add Na_2CO_3 C. use a specially made sorbent having fluorine trapped in it D. Use a sorbent having Al_2O_3 trapped in it
177	Troposphere extends upto km:	A. 0-15 km B. 10-15 km C. 15-40 km D. 15-40 km
178	Surface and ground water sources are contaminated by various human activities. Which of the following is not a human activity that causes contamination in fresh water	A. Rain B. Live stock waste C. Oil leaks and spills D. Disposal of industrial effluents
179	Lead pollution is mainly due to	A. Metallic pollution B. Space pollution C. Acid rain D. Cd pollution
180	Acid rain is caused when various atmospheric gases dissolve in rain water. What are the gases that cause rain water	A. SO_2 B. NO_2 C. CO D. a and b only
181	The layer of earth around the earth is called:	A. Atmosphere B. Hydrosphere C. Lithosphere D. Biosphere
182	Which not a method for solid waste management?	A. Landfill B. Incinerating C. Recycling D. None of these
183	The force which hold the atoms together to form a compound is called:	A. Dispersion forces B. London forces C. A chemical bond D. Van der Waals forces
184	For incineration temperature range is (in °C)	A. 700-800 B. 800-900 C. 900-1000 D. 1000-1100
185	Choose the chief air pollutant among the following which depletes ozone layer	A. Carbon monoxide B. Carbon dioxide C. Chlorofluorocarbons and nitrogen oxides D. Sulphur dioxide

186	How many times a newspaper can be recycled	A. 02 B. 05 C. 08 D. 10
187	Which is the following is true about galvanic cell:	A. Reduction occurs at cathode B. Reduction occurs at anode C. Anode is negatively charged D. Chathode is positively charged
188	Increased awareness of environmental issues has led chemists to develop products and processes that do not impact on the environment in terms of pollution or depletion of sources. To help chemist to achieve this aim, some principles are drawn. Which one is not the guiding principle	A. Avoid waste production B. Use no solvent C. Use a catalyst D. Devise a multistep procedure for synthesis of new compounds
189	The pH range of acid rain is?	A. 7-6.5 B. 6.5-6 C. 6-5.6 D. Less than 5
190	Sulphate aerosols cause severe respiratory problems particularly among	A. Infants B. Women C. Young people D. Old people
191	The temperature in the incineration of industrial and hazardons waster process had a range	A. 950 to 1300°C B. 500 to 900°C C. 250 to 500°C D. 900 to 1000°C
192	Global warming is mainly caused by _____ radiations	A. UV B. I.R C. gama D. X-rays
193	Detergent greatly effects the	A. Aquatic life B. Modern life C. Terrestrial life D. Plants life
194	Ozone layer is high:	A. 20-23 km B. 22-25 km C. 23-26 km D. 25-28 km
195	Why a C - Cl bond breaks by uv light	A. Cl is most electronegative B. Cl is volatile C. C - Cl bond energy is smaller than that of C - H bond energy D. Uv light provides energy which is sufficient to break C - Cl bond and not C - H bond
196	The layer of gases around the earth are called?	A. Atmosphere B. Hydrosphere C. Lithosphere D. All of these
197	Chromium (VI) is highly toxic and can cause	A. Blindness B. Cancer C. Liver problems D. Blood problems
198	Cyclone collector is used to reduce	A. Noise pollution B. Air pollution C. Water pollution D. Radioactive pollution
199	The disposal of domestic refuse, commercial and industrial solid wastes are studied under the title	A. Solid waste management B. Waste management C. Solid management D. Semisolid management
200	Amount of fresh water used by agriculture is	A. 2% B. 23% C. 69% D. 97%
201	Water is considered pollutant when value of Do is	A. 6 PPM B. 8 PPM C. 03 PPM D. 10 PPM
202	Sea gets polluted bu accidental oil spills and	A. Atmospheric pressure B. Nitrogen gas C. Cargo oil tankers D. Atmospheric

		U. Aero plane
203	Splitting of spectral lines when atoms are subjected to strong electric field is called:	A. Compton effect B. Stark effect C. Zeeman effect D. Photoelectric effect
204	Why a C- C bond breaks by uv light	A. Cl is most electronegative B. Cl is volatile C. C - Cl bond energy is smaller than that of C - H bond energy D. uv light provides energy which is sufficient to break C - Cl bond and not C - H bond
205	Ozone is present in layer around earth:	A. atmosphere B. tropospher C. stratosphere D. thermosphere
206	Volcanoes produce SO ₂ :	A. 47% B. 57% C. 67% D. 77%
207	Oxides of sulphur react in atmosphere by various reactions to form:	A. sulphates B. sulphites C. sulphides D. sulphate aerosols
208	Which is not an air pollutant	A. N ₂ B. CO C. NO D. N ₂ O
209	The most important pesticides are:	A. Herbicides B. Insecticides C. Fungicides D. All
210	Which gases are produced from landfills?	A. NH ₃ B. H ₂ S C. N ₂ D. All of these
211	A single chloride free radical can destroy the ozone molecules	A. 100 B. 100000 C. 10000 D. 10
212	Chloroform is carcinogenic:	A. Heart B. Lungs C. Liver D. Kidney
213	The normal amount of overhead ozone is	A. 350 DU B. 450 DU C. 400 DU D. 300 DU
214	Ozone acts as:	A. Pollutant B. saver C. oxidatant D. All of these
215	Chose a point which is not included in the components of environment	A. Stratosphere B. Hydrosphere C. Lithosphere D. Biosphere
216	alum or aluminium sulphate used as coagulant in alkaline medium change into precipitate of radicals of aluminium.	A. sulphates B. oxides C. hydroxides D. chlorides
217	In incinerating the waste is burnt at	A. 1000 °C B. 100 °C C. 2000 °C D. 1500 °C
		A. 100 B. 100000

218	A single chlorine free radical can destroy how many ozone molecules	<p>B. 100000</p> <p>C. 10000</p> <p>D. 10</p>
219	The reason of acid rains is	<p>A. Release of CO in excess by in complete combustion</p> <p>B. Excess release of NO₂ and SO₂ from burning of fossil fuels</p> <p>C. Formation of excess CO₂ due to combustion and respiration</p> <p>D. Formation of NH₃ in excess from industry and coal gas</p>
220	Primary pollutants are:	<p>A. oxides of sulphur</p> <p>B. oxides of carbon</p> <p>C. oxides of nitrogen</p> <p>D. All of these</p>
221	Which one of the following does not act as pollutant	<p>A. Carbon monoxide</p> <p>B. Sulphur dioxide</p> <p>C. Hydrocarbons</p> <p>D. Carbon dioxide</p>
222	Exhaust fumes of cars contain which poisonous gas	<p>A. CH₄</p> <p>B. C₂H₆</p> <p>C. CO</p> <p>D. All of these</p>
223	The bonding occurs among polar covalent molecules containing H and one of the small electronegative element such as O,F or N is called:	<p>A. Ionic bonding</p> <p>B. Metallic bonding</p> <p>C. Bridge bonding</p> <p>D. H-bonding</p>
224	A single free chlorine redical can destroy ozone molecules upto:	<p>A. 100000</p> <p>B. 100</p> <p>C. 1000</p> <p>D. 10000</p>
225	The destructive distillation of coal gives three products. which of following is not the product of destructive distillation of coal?	<p>A. Coal tar</p> <p>B. CO₂</p> <p>C. Coal gas</p> <p>D. Coke</p>
226	Ecosystem is a smaller unity of	<p>A. Nydosphere</p> <p>B. Biosphere</p> <p>C. Lithosphere</p> <p>D. Attmosphere</p>
227	Which is property of CO?	<p>A. Soluble in water</p> <p>B. Insoluble in water</p> <p>C. No toxic</p> <p>D. Pole coloured</p>
228	Phenomenon of acid rains gain importance in:	<p>A. 1930s</p> <p>B. 1940s</p> <p>C. 1950s</p> <p>D. 1960s</p>
229	Which of the following is a macronutrient?	<p>A. Boron</p> <p>B. Iron</p> <p>C. Copper</p> <p>D. Carbon</p>
230	The suspended particles in the raw water can be removed by the	<p>A. Coagulation</p> <p>B. Aeration</p> <p>C. Hydration</p> <p>D. Dehydration</p>
231	Which one of the following is not a component of environment	<p>A. Biosphere</p> <p>B. Stratosphere</p> <p>C. Hydrosphere</p> <p>D. Lithosphere</p>
232	BOD means	<p>A. Boron oxygen deuterium</p> <p>B. Biochemical oxygen demand</p> <p>C. Biochemical oxygen dissolved</p> <p>D. Biochemical oxygen death</p>

233	Lithosphere has amount of silicon	A. 35.30% B. 27.72% C. 40.01% D. 21.13%
234	SO ₂ produced by volcanoes is about	A. 75% B. 67% C. 69% D. 70%
235	Pan is an irritant to human beings and it affects	A. Eyes B. Nose C. Hair D. Skin
236	Chemicals used to kill herbs are:	A. Herbicides B. Insecticides C. Pesticides D. Fungicides
237	Which one is more toxic?	A. Fe B. C C. Hg D. Ag
238	Three elements needed for the healthy growth of plants are	A. N P K B. N K C C. N S P D. N Ca P
239	The smog having high contents of SO ₂ is	A. Neutral smog B. Reducing smog C. Oxidizing smog D. Artificial smog
240	Lithosphere extends upto kilometer of earth crust in depth:	A. 10 km B. 100 km C. 1000 km D. 10000 km
241	Surface and ground water sources are contaminated by various human activities which of the followings is not a human activity that causes contamination in fresh water	A. live stock waste B. oil leaks and spills C. disposal of industrial effluents D. rain
242	The range of UV-B is:	A. 320 to 400 nm B. 200 to 280 nm C. 280 to 320 nm D. 50 to 400 nm
243	August Smith discovered in the mid of seventeenth century:	A. acid B. Base C. Acid rain D. Fertilizer
244	NO and NO ₂ gases in atmosphere are represented by	A. NO B. NO ₄ C. NO _x D. N _x O _y
245	Ocean contains part earth's water:	A. 95% B. 96% C. 97% D. 98%
246	White marble buildings are effected by?	A. O ₂ B. SO ₂ C. Cl ₂ D. CFC _s
247	Hydrocarbons, SO ₂ , CO, NH ₃ nitrogen oxides and compounds of fluorine are called	A. Primary pollutant B. Secondary pollutant C. Tertiary pollutant D. None of these
248	Leachate contains:	A. fatty acids B. Bacteria C. Heavy metals D. All of these

A. Four

249	BOD is the oxygen demand with in day(s):	B. Two C. Three D. Five
250	Diseases like dysentery, typhoid and hepatitis are caused by mixing of in water:	A. Live stock wastes B. Oil spillage C. detergents D. pesticides
251	Biochemical oxygen demand (BOD) is the capacity of organic matter in natural water to consume oxygen with in a period of	A. 2 day B. 6 day C. 5 day D. 7 day
252	Contamination of Hg comes into surface water from chlor industrial wastes. Why is Hg Toxic.	A. It attaches to sulphur of the disulphide link B. Hg is a heavy metal C. Hg is liquid at room temperature D. Hg is non reactive chemically
253	Coal contains sulphur in it:	A. 1-3% B. 1-6% C. 1-9% D. 1-12%
254	Atmosphere consists of gasses:	A. N ₂ B. O ₂ C. Ar D. All
255	CFC's are known to cause depletion of ozone layer therefore their use has been banned in refrigerators and air conditioners. Which alternate compound may be suitable to replace CFC	A. CCl ₄ B. CHCl ₃ C. CH ₃ -CH ₂ -CH ₃ D. CHCl ₂ -CHF ₂
256	Heat balance of earth is maintained by	A. Atmosphere B. Hydrosphere C. Lithosphere D. Stratosphere
257	When chlorofluoro carbon are subjected to U.V they form	A. Cations B. Anions C. Free radicals D. None of these
258	The eleventh concentration of metal cause clogs of gills in fish:	A. Al B. He C. Pb D. Ca
259	The percentage of SO ₂ produced by volcanoes is:	A. 47% B. 57% C. 67% D. 77%
260	Water in swimming pools is purified by adding	A. Sodium B. Chlorine C. Phosphorus D. Potassium
261	Factors affecting quality of water:	A. D.O B. BOD C. COD D. a,b,c
262	The semi solid wastes in landfills is called:	A. Landfill B. effluents C. Leachate D. Incineration
263	Oceans cove _____ percent of the surface of the earth	A. 60 B. 70 C. 80 D. 97
264	In the atosphere, CO ₂ is about	A. 0.01% B. 0.03% C. 0.05% D. 0.09%
265	By the mid of 1990s depletion of total overhead ozone in antarctic region is	A. 20% B. 30%

265	By the mid of 1990s depletion of total overhead ozone in antarctic region is	C. 40% D. 50%
266	Which factor is helping to reduce the environmental pollution	A. Urbanization B. Industrialization C. Increase of plantation D. Rapid growth of population
267	The morality of the solution containing x grams ammonium sulfate in 500cm ³ of the solution is 0.6 what is x?	A. 39.6 B. 40.5 C. 42.7 D. 45.1
268	Region of earth capable of supporting life is called:	A. Atmosphere B. Hydrosphere C. Lithosphere D. All of these
269	Which one of the following is used as coagulant for purification potable water	A. Copper sulphate B. Alum C. Barium sulphate D. Nickel sulphate
270	The film forming components of paints are	A. resins B. thinners C. pigments D. driers
271	Requirement of macronutrient per acre of the land is	A. 5 to 200 kg B. 20-200 kg C. 200-400 kg D. 30-400 kg
272	Ratio of hydrogen (H) and oxygen (O) in water molecule by volume is	A. 2:1 B. 1:2 C. 3:1 D. 4:1
273	How much quantity of total water is available as fresh water	A. 3% B. 1% C. 10% D. 21%
274	Proxy acetyl nitrate (PAN) is an irritant to human beings and it affect	A. Nose B. Stomach C. Eyes D. Ears
275	What change in plants indicates toxic effect of SO ₂	A. Weathering of leaves B. Darkening of leaves C. Falling of leaves D. Bleaching of leaves
276	Term ozone hole is used for depletion of ozone during months of:	A. Jan-Feb B. March - Sep C. Sep- Nov D. Dec-Feb
277	Which heavy metals do not have any safe limits	A. As B. Hg C. Cr D. All of these
278	Ozone is a gas having boiling point	A. Unstable B. High C. Low D. Moderate
279	One of the environmental problem is the formation of oil slicks when oil is spilled form tankers in sea water. Which treatment is suitable to remove oil slicks	A. Blow air B. Add Na_2CO_3 C. Use a specially made sorbent having fluorine trapped in it D. Use a sorbent having Al_2O_3 trapped in it

280	Water is purified by:	A. Filtration B. aeration C. coagulation D. All of these
281	In big/metropolitan cities, atmosphere is mostly polluted due to	A. Radioactive fall out B. Household waste C. Pesticide residue D. Automobile exhausts
282	The overall effect of the photochemical smog in the after noon is built up of	A. Neutralization B. oxidizing agent C. Reducing agent D. Activating agent
283	Water is purified by the process:	A. Aeration B. Coagulation C. Chlorination D. All of these
284	Heat balance of earth is maintained by sphere:	A. Hydrosphere B. atmospheres C. lithosphere D. biosphere
285	Contamination of Hg comes into surface water from chlor industrial wastes. Why is Hg toxic	A. It attaches to sulphur of the disulphide link B. Hg is a heavy metal C. Hg is liquid at room temperature D. Hg is reactive chemically
286	Which is not considered as pollutant	A. O_3 B. CO_2 C. NO_2 D. SO_2
287	The pH range of acid rain is?	A. 7-6.5 B. 6.5-6 C. 6-5.6 D. Less than 5
288	Which one of the following is an organic compound?	A. Calcium carbide B. Calcium cyanide C. Carbon disulphide D. None of these
289	The rigid rocky part of earth crust called lithosphere extends upto a depth of:	A. 10 km B. 100 km C. 1000 km D. 1500 km
290	What is the effect of polluted air on environment	A. Ozone B. Acid rain C. Global warming D. Smog
291	Main cause of reducing map is:	A. Combustion of coal B. NO and NO_2 C. Un-burnt hydrocarbons D. All of these
292	Which is the most toxic among the given?	A. heavy metals B. non-metals C. Metals D. Metalloids
293	Newspapers can be recycled again and again by how many times	A. 5 B. 2 C. 4 D. 3
294	Polycyclic aromatic hydrocarbons are taught to be	A. Disinfectant B. Carcinogenic C. Helpful D. Reactive
295	What is the cause of water pollution	A. Chemical and bacterial constants in live stock B. The spilled oil in rivers and ponds C. Wide spreads used of pesticides D. All of these
296	Biological oxygen demand (BOD) is associated with	A. Organic matter B. Micro organisms C. Both a and b D. None
		A. 100

297	A single chloride free radical can destroy how many ozone molecules?	B. 100000 C. 10000 D. 10
298	Potable water is considered to be	A. Safe for human consumption B. The ground water C. The surface water D. Now safe for human consumption
299	Materials suspended in water or present as colloidal form in raw water are removed by:	A. aeration B. coagulation C. chlorination D. treatment
300	In Purification of potable water the coagulant used is	A. nickel sulphate B. copper sulphate C. barium sulphate D. alum
301	The main pollutant of leather in the waste water is due to the salt of:	A. Lead B. Chromium (VI) C. Copper D. Chromium (III)
302	The pH range of acid rain is	A. 8 - 7 B. 7 - 6.5 C. 6.5 - 6 D. less than 5
303	a hole used to dump the municipal wastes is called:	A. landfill B. effluents C. leachate D. incineration
304	The pH of the rain water in areas where acid rain is the cause of pollution may be	A. 6.5 B. 5.6 C. 4.5 D. 2.2
305	Poisoning of CO can be reversed by giving oxygen at pressure:	A. low B. least C. medium D. High
306	Hydrosphere covers the surface of earth:	A. 70.8% B. 71.8% C. 72.8% D. 73.8%
307	0.1M HCl having pH=1.0 it is about 100 times stronger than acetic acid what will be the pH of acetic acid:	A. 0.1 B. 1.3 C. 2 D. 3
308	Part of fresh water consumed in domestic purpose:	A. 1% B. 2% C. 69% D. 8%
309	Which is not a component of environment?	A. Biosphere B. Lithosphere C. Hydrosphere D. None of these
310	Most harmful of biosphere is	A. Deforestation B. Nuclear fall out C. Salinity D. Water logging
311	Polar ice caps can melt due to	A. Acid rain B. Green House Effect C. Smog D. Chlorofluorocarbons
312	Ozone gas has boiling point:	A. Low B. High C. Medium D. Highest
313	Smaller unit of biosphere is:	A. species B. ecosystem C. plankton D. troposphere
314	Newspaper can be recycled again and again by how many times?	A. 2 B. 3 C. 4 D. 5

315	Part of fresh water consumed in industry is:	A. 1% B. 2% C. 69% D. 23%
316	The water is considered to be polluted when the concentration of oxygen in it is	A. 6 - 9ppm B. 6 ppm C. 8 ppm D. Less than 4pm
317	The normal amount of overhead ozone is about	A. 250 Du B. 300 DU C. 350 DU D. 400 DU
318	Choose the correct statements	A. SO_2 affects the nucleus B. SO_2 affects plasmodesmata C. SO_2 affects cell wall D. SO_2 affects all membrane systems
319	Which of the following factors is not used to determine the quality of water	A. COD B. BOD C. DO D. Available chlorine
320	Leather tanneries use big quantities of:	A. Cr VI salts B. Cr III salts C. Mn-salts D. Pb-salts
321	Which of the following is not the required condition for the formation of smog	A. Sufficient NO B. Sunlight C. Less movement of air D. Winds
322	CFCs destroy ozone layer. How many ozone molecule a chlorine free radical can destroy	A. 50,000 B. 10,000 C. 20,000 D. None of these
323	CFCs are mainly used in industries due to	A. Low cost B. Gaseous nature C. High reactivity D. Un stability