

MDCAT Chemistry Chapter 21 Environmental Chemistry Online Test

Sr	Questions	Answers Choice
1	Biological oxygen demand (BOD) is associated with	A. Organic matter B. Micro organisms C. Both a and b D. None
2	Organic pollutants in water are measured by	A. DO B. COD C. Water logging D. PH
3	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
4	Coal contains sulphur in it:	A. 1-3% B. 1-6% C. 1-9% D. 1-12%
5	Which not a method for solid waste management>	A. Landfill B. Incinerating C. Recycling D. None of these
6	Water is purified by the process:	A. Aeration B. Coagulation C. Chlorination D. All of these
7	Troposphere extends upto km:	A. 0-15 km B. 10-15 km C. 15-40 km D. 15-40 km
8	Water which forms scum with soap is called	A. Hard water B. Soft water C. Distilled water D. Un distilled water
9	The words smog is a combination of smoke and:	A. fog B. foke C. fork D. fizzy
10	The temperature in the incineration process has a range:	A. 900 to 1000 °C B. 650 to 1100 °C C. 950 to 1300 °C D. 950 to 1300 °C

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D. 500 to 900C

11	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
12	a hole used to dump the municipal wastes is called:	A. landfill B. effluents C. leachate D. inclneration
13	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
14	Which is not considered as pollutant	A. O_3 B. CO_2 C. NO_2 D. SO_2
15	Test of incomplete combustion of petrol in the presence of	A. CO_2 B. SO_2 C. NO_2 D. Co
16	Reason of pollution are:	A. Population and urbanization B. Transportation C. Industrialization D. All of these
17	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
18	Agriculture consumes part of fresh water:	A. 1% B. 2% C. 69% D. 23%
19	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+}
20	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
21	Forms of waste products:	A. Heat B. Smoke C. Solid D. All of these
22	The normal amount of overhead ozone is	A. 350 DU B. 450 DU C. 400 DU D. 300 DU
23	A single chloride free radical of CFCs can destroy upto ozone molecules:	A. 10 B. 100 C. 1000 D. 100000
24	In the atosphere, CO_2 is about	A. 0.01% B. 0.03% C. 0.05% D. 0.09%
25	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

26	Ozone layer is	A. 25 - 28 km high B. 26 - 29 km high C. 24 - 27 km high D. 20 - 28 km high
27	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
28	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
29	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_2O D. Oil spills in H_2O
30	Ozone is produced in regions:	A. tropical B. Polar C. antaric D. equator
31	For incineration temperature range is (in $^{\circ}\text{C}$)	A. 700-800 B. 800-900 C. 900-1000 D. 1000-1100
32	Chose a point which is not included in the components of environment	A. Stratosphere B. Hydrosphere C. Lithosphere D. Biosphere
33	Chlorination of water is effective for	A. Killing pathogens B. Removing dust C. Removing hardness D. Increasing oxygen content
34	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
35	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
36	The reason of acid rains is	A. Release of CO in excess by in complete combustion B. Excess release of NO_2 and SO_2 from buring of fossil fules C. Formation of excess CO_2 due to combustion and respiration D. Formation of NH_3 in excess from industry and coal gas
37	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
38	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
39	CFCs destroy ozone layer. How many ozone molecule a chlorine free radical can destory	A. 50,000 B. 10,000 C. 20,000 D. None of these
40	Photo chemical smog contains _____ as main reactants	A. Nitrons oxide and unburnt hydrocarbons B. Nilric oxide and unburnt hydrocarbons C. No and burnt hydrocarbons D. N_2 and burnt hydrocarbons

41	Which of the following waste material is not recycled for use again	A. paper B. plastic C. hides of animals D. glass
42	Poisoning of CO can be reversed by giving oxygen at pressure:	A. low B. least C. medium D. High
43	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
44	Which of the following waste material is not recycled for use again	A. Glasses B. Paper C. Plastic toys D. Hides of animals
45	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
46	The temperature of in the incineration of industrial and hazardous waste process has range	A. 900 - 1000°C B. 250 - 500°C C. 950 - 1300°C D. 500 - 900°C
47	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
48	Many petroleum products are:	A. coloured B. colourless C. testy D. poisoinous
49	Which of the following air pollutant is called quiet killer	A. PAN B. CO C. NO ₃ D. SO ₃
50	Density of water becomes maximum at	A. 10°C B. 4°C C. 5°C D. 12°C
51	The bonding occurs among polar covalent molecules containing H and one of the small electronegative element such as O,F or N is called:	A. Ionic bonding B. Metallic bonding C. Bridge bonding D. H-bonding
52	Global warming is mainly caused by _____ radiations	A. UV B. I.R C. gama D. X-rays
53	Sea gets polluted bu accidental oil spills and	A. Atmospheric pressure B. Nitrogen gas C. Cargo oil tankers D. Aero plane
54	Which one of the following is not air pollutant gas	A. CO B. CO ₂ C. NO D. SO ₂
55	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
56	How many times a newspaper can be recycled	A. 02 B. 05 C. 08 D. 10

57	Exposure to CO results in	A. Headche B. Fatigue C. Unconsciousness D. All of these
58	Newspaper can be recycled again and again by how many times?	A. 2 B. 3 C. 4 D. 5
59	Which is not the affect of polluted air on environment	A. acid rain B. smog C. ozone D. global warming
60	What is component of environment?	A. Atmosphere B. Hydrosphere C. Lithosphere D. All of these
61	The largest item which is recycled is	A. newspaper B. plastic C. aluminium D. oil
62	The most important pesticides are:	A. Herbicides B. Insecticides C. Fungicides D. All
63	0.1M HCl having pH =1.0 it is about 100 time stronger than acetic acid what will be the pH of acetic acid:	A. 0.1 B. 1.3 C. 2 D. 3
64	Lanthanides an actinides belong to following group of periodic table:	A. IB B. VIIB C. IIB D. IIIB
65	How much pesticides have been synthesized at present?	A. Four thousand B. Six thousand C. Eight thousand D. Ten thousand
66	Water is made disinfectant during purification of water to the step:	A. aeration B. coagulation C. chlorination D. treatment
67	Water cover earth surface more than:	A. 50% B. 60% C. 70% D. 80%
68	Ocean contains part earth's water:	A. 95% B. 96% C. 97% D. 98%
69	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
70	Eleven elements made part of earth mass:	A. 97.5% B. 98.5% C. 99.5% D. 100%
71	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
72	Chromium (VI) is highly toxic and can cause	A. Blindness B. Cancer C. Liver problems D. Blood problems
73	Cyclone collector is used to reduce	A. Noise pollution B. Air pollution C. Water pollution D. Radioactive pollution
74	Detergent greatly effects the	A. Aquatic life B. Modern life C. Terrestrial life D. Plants life

75	Acidification of soil can leach metal:	A. Al B. Hg C. Pb D. Ca
76	Newspapers can be recycled again and again by how many times	A. 5 B. 2 C. 4 D. 3
77	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
78	In Purification of potable water the coagulant used is	A. nickel sulpahte B. copper sulpahte C. barium sulphate D. alum
79	Chemicals used to kill insects are:	A. Herbicides B. Insecticides C. Pesticides D. Fungicides
80	Which is not an air pollutant	A. N_2 B. CO C. NO D. N_2O
81	Chemical like $\text{Al}_2(\text{SO}_4)_3$ or alum are used in purification of water druing step:	A. aeration B. coagulation C. chlorination D. treatment
82	Men residence time of methane in atmosphere in years is:	A. 1-7 B. 2-7 C. 3-7 D. 4-7
83	Polar ice caps can melt due to	A. Acid rain B. Green House Effect C. Smog D. Chlorofluorocarbons
84	The process of coagulation can remove suspended solids in raw water about	A. 50% B. 60% C. Less than 40% D. More than 80%
85	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
86	What is the effect of polluted air on environment	A. Ozone B. Acid rain C. Global warming D. Smog
87	Major cause of SO_2 on global scale is	A. Volcanoes B. Electric sparks C. Combustion D. All
88	Lithosphere has amount of silicon	A. 35.30% B. 27.72% C. 40.01% D. 21.13%
89	Coagulation removes suspended particles in ran water:	A. 60% B. 70% C. 80% D. 90%

A. Coagulation

90	The suspended particles in the raw water can be removed by the	B. Aeration C. Hydration D. Dehydration
91	Depletion of ozone is more during the month:	A. Jan-March B. April-Jun C. July-Aug D. Sept-Nov
92	Ozone is 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
93	The amount of oxygen in the lithosphere is about	A. 35.50% B. 40.60% C. 46.60% D. 50.50%
94	The pH range of the acid rain is	A. 7 - 6.5 B. 6.5 - 6 C. 6 - 5.6 D. Less than 5
95	Residence time of methane in the atmosphere is	A. 3 - 7 days B. 2 -3 days C. 3 - 7 years D. 2 - 3 years
96	Water is essential for life on	A. Moon B. Space C. Earth D. Sun
97	The eleventh concentration of metal cause clogs of gills in fish:	A. Al B. He C. Pb D. Ca
98	Factors affecting quality of water:	A. D.O B. BOD C. COD D. a,b,c
99	The force which hold the atoms together to form a compound is called:	A. Dispersion forces B. London forces C. A chemical bond D. Ven der wall's forces
100	The normal amount of overhead ozone is about in DU:	A. 150 B. 250 C. 350 D. 450
101	Which one of the following is not a component of environment	A. Biosphere B. Stratosphere C. Hydrosphere D. Lithosphere
102	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
103	Which factor is helping to reduce the environment pollution	A. rapid growth population B. urbanization C. idustrialization D. increase of plantation
104	Ecosystem is a smaller unit of	A. Hydrosphere B. Lithosphere C. Biosphere D. Atmosphere
105	Most harmful of biosphere is	A. Deforestation B. Nuclear fail out C. Salinity D. Water logging
106	Carbon Monoxide is	A. colouriess B. orderless

106	Carbon monoxide is:	C. high toxic D. All of these
107	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
108	Proxy acetyl nitrate (PAN) is an irritant to human beings and it affect	A. Nose B. Stomach C. Eyes D. Ears
109	When chlorofluoro carbon are subjected to U.V they form	A. Cations B. Anions C. Free radicals D. None of these
110	Oceans, rivers, streams, leaks, polar ice caps, glaciers and group water reservoirs are included in	A. Atmosphere B. Lithosphere C. Hydrosphere D. Biosphere
111	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
112	Ozone gas has boiling point:	A. Low B. High C. Medium D. Highest
113	The film forming components of paints are	A. resins B. thinners C. pigments D. driers
114	How much quantity of total water is available as fresh water	A. 3% B. 1% C. 10% D. 21%
115	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
116	Amount of fresh water used by agriculture is	A. 2% B. 23% C. 69% D. 97%
117	Which of the following human activities are contaminating surface and ground waters?	A. pesticides B. septic ranks C. petroleum and natural gas production D. all of these
118	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
119	Which step is unnecessary for purification of water for drinking purposes	A. aeration B. coagulation C. treatment with chlorine D. treatment with iodine
120	Ozone is effectively removed by	A. TNT B. CFCs C. PVC D. CNG
121	The destructive distillation of coal gives three products. which of following is not the product of destructive distillation of coal?	A. Coal tar B. CO ₂ C. Coal gas D. Coke
122	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

123	Industrial effluents have toxic synthetic organic compounds as well as heavy metals like	A. Pb B. Cr C. Hg D. All of these
124	The main pollution of leather tanneries in the waste is due to the salt of	A. Chromium B. Copper C. Chromium D. Lead
125	How much quantity of water is in the domestic use	A. 0.08% B. 16% C. 24% D. 90%
126	Ph of unpolluted rain water is	A. 07 B. Less than 6 C. 5.6 D. Less than 5
127	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
128	The respiration process taking place in animals depends on a difference in	A. Partial pressure B. Osmotic pressure C. Vapour pressure D. Atmospheric pressure
129	The pH range of the acid rain is	A. 6.5 - 6 B. Less than 5 C. 8 - 7.5 D. 7 - 6.5
130	Phenomenon of acid rains gain importance in:	A. 1930s B. 1940s C. 1950s D. 1960s
131	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
132	Which of the following factors is not used to determine the quality of water	A. COD B. BOD C. DO D. Available chlorine
133	Which is not a component of environment?	A. Biosphere B. Lithosphere C. Hydrosphere D. None of these
134	Rigid rocky crust earth upto a depth of 100 km is called:	A. Atmosphere B. Hydrosphere C. Lithosphere D. All of these
135	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
136	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
137	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
138	Ozone is usually produced in the	A. South polar region B. North pole region C. Tropical region D. Thermosphere zone

139	The % of CO ₂ in the atmosphere is	A. 3.0% B. 0.03% C. 0.3% D. 0.5%
140	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
141	Site of land for landfill is selected based upon.	A. topography B. location of ground C. water table D. All of these
142	During incineration temperature range of non-rotating chamber is	A. 900-1000C° B. 650-1100C° C. 950-1300C° D. 700-900C°
143	SO ₂ and NO ₂ cause pollution due to increase in	A. Buffer action B. Basicity C. Acidity D. Neutrality
144	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
145	Synthetic organic pesticides formulated nowadays are more than:	A. One thousand B. Ten thousand C. Two thousands D. Twenty thousand
146	It is a biodegradable pollutant	A. Salts of HG B. DDT C. Aluminum foil D. Domestic fuel
147	Polycyclic aromatic hydrocarbons are taught to be	A. Disinfectant B. Carcinogenic C. Helpful D. Reactive
148	Hardness which can be removed by boiling is called	A. Permanent hardness B. Temporary hardness C. Stiffness D. Toughness
149	Which of the following is not a heavy industry?	A. Iron B. Fertilize C. Paper D. None
150	Hydrosphere includes	A. Seas and rivers B. Ocean & polar ice caps C. Ground water D. All of above
151	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
152	Which gases are produced from landfills?	A. NH ₃ B. H ₂ S C. N ₂ D. All of these
153	Which is unnecessary for purification of water for drinking purposes	A. Coagulation B. Aeration

		<p>C. Treatment with Iodine</p> <p>D. Treatment with chlorine</p>
154	Exhaust fumes of cars contain which poisonous gas	<p>A. CH_4</p> <p>B. C_2H_6</p> <p>C. CO</p> <p>D. All of these</p>
155	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>
156	In big/metropolitan cities, atmosphere is mostly polluted due to	<p>A. Radioactive fall out</p> <p>B. Household waste</p> <p>C. Pesticide residue</p> <p>D. Automobile exhausts</p>
157	The layer of earth around the earth is called:	<p>A. Atmosphere</p> <p>B. Hydrosphere</p> <p>C. Lithosphere</p> <p>D. Biosphere</p>
158	A pollutant affects	<p>A. Human affects</p> <p>B. Quality of life</p> <p>C. Functioning of ecosystem</p> <p>D. All of these</p>
159	Chemicals used to kill fungi are:	<p>A. Herbicides</p> <p>B. Insecticides</p> <p>C. Pesticides</p> <p>D. fungicides</p>
160	Peroxyacetylnitrate (PAN) is an irritant to human beings and it affects:	<p>A. Eyes</p> <p>B. Ears</p> <p>C. Stomach</p> <p>D. Nose</p>
161	Region of earth capable of supporting life is called:	<p>A. Atmosphere</p> <p>B. Hydrosphere</p> <p>C. Lithosphere</p> <p>D. All of these</p>
162	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>
163	Which of the following is not a secondary pollutant	<p>A. Ozone</p> <p>B. Carbonic acid</p> <p>C. Sulphuric acid</p> <p>D. Carbon dioxide</p>
164	Requirement of macronutrient per acre of the land is	<p>A. 5 to 200 kg</p> <p>B. 20-200 kg</p> <p>C. 200-400 kg</p> <p>D. 30-400 kg</p>
165	Volcanoes produce SO_2 :	<p>A. 47%</p> <p>B. 57%</p> <p>C. 67%</p> <p>D. 77%</p>
166	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>
167	A large hole in the ozone layer over antarctica region was discovered in:	<p>A. 1960s</p> <p>B. 1970s</p> <p>C. 1980s</p> <p>D. 1990s</p>

168	Nitrogen in the atmosphere is:	A. 78% B. 21% C. 0.9% D. 0.03%
169	Sulphate aerosols cause severe respiratory problems particularly among	A. Infants B. Women C. Young people D. Old people
170	Chemicals used to kill pests are:	A. Herbicides B. Insecticides C. Pesticides D. fungicides
171	Fungicides are the pesticides which:	A. Control the growth of fungus B. Kills insects C. Kills plants D. Kill herb
172	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
173	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
174	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
175	Which gas is not a constituent of atmosphere?	A. Xe B. O ₃ C. H ₂ D. F ₂
176	Materials suspended in water or present as colloidal form in raw water are removed by:	A. aeration B. coagulation C. chlorination D. treatment
177	Which gas produces air pollution?	A. oxides of sulphur B. oxides of carbon C. all of these
178	The amount of Si in the lithosphere is about	A. 27.72% B. 30.35% C. 35.30% D. 40.21%
179	The percentage of SO ₂ produced by volcanoes is:	A. 47% B. 57% C. 67% D. 77%
180	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
181	Elevated concentration of _____ is harmful for fish as it clog the gills causing suffocation	A. Al B. Hg C. As D. Cr(vi)
182	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
183	The normal amount of overhead ozone is about	A. 250 Du B. 300 DU C. 350 DU D. 400 DU
184	Chloroform is carcinogenic:	A. Heart B. Lungs C. Liver D. Kidney
185	Which factor is helping to reduce the environmental pollution	A. Urbanization B. Industrialization

185	Which factor is helping to reduce the environmental pollution?	C. Increase of plantation D. Rapid growth of population
186	Temporary hardness can be removed by adding	A. Lime B. Carbon C. Oxygen D. Slaked lime
187	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
188	Nitrogen percentage in atmosphere is:	A. 76% B. 77% C. 78% D. 79%
189	Chemical equilibrium involving reactants and products in more than one phase is called:	A. Homogeneous B. Heterogeneous C. Dynamic D. Static
190	Leaching of nutrients is due to	A. Drying of soil B. Combustion of soil C. Acidification of soil D. Neutralization of soil
191	Contamination of water of tanning industries is due to:	A. Cr(III) B. Cr(VI) C. Mn(III) D. Mn(VII)
192	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
193	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
194	Electropositive character increases down the groups due to:	A. Increase in atomic size of the elements B. Decrease in ionization potential C. Decreases in electromagnetically of the element D. All the above
195	Ozone layer is present in	A. Troposphere B. Stratosphere C. Mesosphere D. Ionosphere
196	Main cause of reducing map is:	A. Combustion of coal B. NO and NO ₂ C. Un-burnt hydrocarbons D. All of these
197	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
198	Part of fresh water consumed in domestic purpose:	A. 1% B. 2% C. 69% D. 8%
199	BOD is the oxygen demand with in day(s):	A. Four B. Two C. Three D. Five
200	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

201	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
202	Ecology is a science of environment and deals specially with	A. stratosphere B. biosphere C. lithosphere D. hydrosphere
203	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
204	Atmosphere consists of gasses:	A. N_2 B. O_2 C. Ar D. All
205	The semi solid wastes in landfills is called:	A. Landfill B. effluents C. Leachate D. Incineration
206	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
207	The region of earth capable of supporting life is	A. Hydrosphere B. Lithosphere C. Biosphere D. Atmosphere
208	Ozone layer is high:	A. 20-23 km B. 22-25 km C. 23-26 km D. 25-28 km
209	In the atmosphere, O_2 is about	A. 10% B. 15% C. 21% D. 25%
210	Dissolved impurities of potable water can be separated by the process of	A. reduction B. Aeration C. Electrolysis D. Co-angulation
211	The smog having high contents of SO_2 is	A. Neutral smog B. Reducing smog C. Oxidizing smog D. Artificial smog
212	The layer of gases around the earth are called?	A. Atmosphere B. Hydrosphere C. Lithosphere D. All of these
213	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
214	Coagulation in the purification of water is carried out by	A. Alum B. $NiSO_4$ C. $BaSO_4$ D. $CuSO_4$
215	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
216	CFCs are mainly used in industries due to	A. Low cost B. Gaseous nature C. High reactivity D. Un stability
217	The 95.5% mass of Lithosphere 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
218	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

219	Unit of ozone is?	A. Debye B. Dobson C. Esu D. Coulomb
220	SO ₂ makes _____ acid rains	A. carbonic acid B. Sulfuric C. Nitric acid D. All of these
221	Oceans cover _____ percent of the surface of the earth	A. 60 B. 70 C. 80 D. 97
222	Fungicides are the pesticides which	A. Kill plants B. Kill herbs C. Kill insects D. Control the growth of fungus
223	A single chlorine free radical can destroy how many ozone molecules	A. 100 B. 100000 C. 10000 D. 10
224	A single chloride free radical can destroy how many ozone molecules?	A. 100 B. 100000 C. 10000 D. 10
225	Ozone is present in layer around earth:	A. atmosphere B. troposphere C. stratosphere D. thermosphere
226	Chemicals used to kill herbs are:	A. Herbicides B. Insecticides C. Pesticides D. Fungicides
227	Heat balance of earth is maintained by	A. Atmosphere B. Hydrosphere C. Lithosphere D. Stratosphere
228	During thunderstorms, water dissolves	A. Dust particles B. HCl C. Nitric acid D. Clouds
229	In purification of potable water the coagulant used is:	A. Nickel sulphate B. Copper sulphate C. Barium sulphate D. Aluminium sulphate
230	Which is used as a coagulant:	A. Ferric salts B. Potash alum C. a and b both D. Chlorine
231	Pan is an irritant to human beings and it affects	A. Eyes B. Nose C. Hair D. Skin
232	Ground and surface waters are contaminated and become polluted due to the human activity. Which human activity will not cause water pollution	A. live stock waste B. agricultural pesticides C. oil leaks and spills D. all of the above
233	Commonly used coagulants are ions of:	A. Ferrous B. Al C. Cr D. Ferric
234	By the mid of 1980s depletion of total overhead ozone in antarctic region is	A. 20% B. 30% C. 40% D. 50%
235	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
236	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
237	Polar ice caps and glaciers consists total earth water:	A. 1% B. 2% C. 3% D. 4%
238	Elements in lithosphere exist generally as:	A. metals B. non-metals C. metalloids D. minerals
239	A single free chlorine redical can destroy ozone molecules upto:	A. 100000 B. 100 C. 1000 D. 10000
240	Which one is more toxic?	A. Fe B. C C. Hg D. Ag
241	Which one of the following is used as coagulant for purification potable water	A. Copper sulphate B. Alum C. Barium sulphate D. Nickel sulphate
242	Term ozone hole is used for depletion of ozone during months of:	A. Jan-Feb B. March - Sep C. Sep- Nov D. Dec-Feb
243	Photochemical smog consists of higher concentration of:	A. Oxidants B. Ozone C. a & b D. NO ₃
244	Leather tanneries use big auantities of:	A. Cr Vi salts B. Cr III salts C. Mn-salts D. Pb-salts
245	HOCl is a compound:	A. Polor inorganic B. organic C. Ionic D. covalant
246	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
247	Which one of the following is an organic compound?	A. Calcium carbide B. Calcium cyanide C. Carbon disulphide D. None of these
248	Fresh water of total earth water is:	A. 1% B. 2% C. 3% D. 4%
249	The pH range of acid rain is?	A. 7-6.5 B. 6.5-6 C. 6-5.6 D. Less than 5
250	Which of the following substance is not present in acid rain?	A. Sulphuric acid B. Nitric acid C. Sulphurous acid D. Acetic acid
251	A single chloride free radical can destroy the ozone molecules	A. 100 B. 100000 C. 10000 D. 10

252	Which heavy metals do not have any safe limits	A. As B. Hg C. Cr D. All of these
253	Petroleum or crude oil is a complex mixture of compounds mainly:	A. benzene B. minerals C. hydrocarbons D. phenols
254	Transportation causes to produce CO ₂ in atmosphere:	A. 72% B. 73% C. 74% D. 75%
255	Ozone in stratosphere extends upto km:	A. 0-15 km B. 10-15 km C. 15-40 km D. 15-25 km
256	The incineration may reduce volume of wastes upto:	A. 1/4th B. 1/2nd C. 2/3rd D. 3/4th
257	Natural water is	A. Pure B. Impure C. Acts as solute D. Distilled
258	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)
259	Which is property of CO?	A. Soluble in water B. Insoluble in water C. No toxic D. Pole coloured
260	Ozone is an allotropic form of:	A. Carbon B. Phosphorus C. Oxygen D. Sulfur
261	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
262	The temperature in the incineration of industrial and hazardous waste process had a range	A. 950 to 1300°C B. 500 to 900°C C. 250 to 500°C D. 900 to 1000°C
263	Components of environment is (in km) around the earth:	A. 10 km B. 100 km C. 1000 km D. 1500 km
264	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
265	Which of following is primary pollutants	A. N ₂ O B. PAN C. H ₂ SO ₄ D. None of these
266	BOD is the oxygen demand with in day(s):	A. Four B. Two C. Three D. Five
267	In incinerating the waste is burnt at	A. 1000 °C B. 100 °C C. 2000 °C D. 1500 °C

268	SO ₂ produced by volcanoes is about	A. 75% B. 67% C. 69% D. 70%
269	A single chlorine free radical can destroy how many ozone molecules	A. 10 B. 100 C. 1000 D. 10000
270	August Smith discovered in the mid of seventeenth century:	A. acid B. Base C. Acid rain D. Fertilizer
271	COD of water can be measured by	A. Cr ₂ O ₃ B. Cr ₂ O ₄ ⁻² C. Cr ₂ O ₇ ⁻² D. None of these
272	Part of fresh water consumed in industry is:	A. 1% B. 2% C. 69% D. 23%
273	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
274	White marble buildings are effected by?	A. O ₂ B. SO ₂ C. Cl ₂ D. CFCs
275	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
276	Leachate contains:	A. fatty acids B. Bacteria C. Heavy metals D. All of these
277	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
278	Any substance in the environment which adversely affects the human health and natural functioning of the Ecosystem is known as	A. environment B. hydrosphere C. pollutant D. biosphere
279	Out of total amount of water available for human use is	A. 0.30% B. 0.2% C. 40% D. 50%
280	Smaller unit of biosphere is:	A. specie B. ecosystem C. plankton D. troposphere
281	NO and NO ₂ gases in atmosphere are represented by	A. NO B. NO ₄ C. NO _x D. N _x O _y
282	Which of the following is a macronutrient?	A. Boron B. Iron C. Copper D.

283	Which of the following does not contribute towards the formation of photochemical smog?	A. NO B. SO_2 C. O_3 D. Hydrocarbons
284	Oxides of sulphur react in atmosphere by various reactions to form:	A. sulphates B. sulphites C. sulphides D. sulphate aerosols
285	The normal amount of overhead ozone is	A. 350 DU B. 450 DU C. 400 DU D. 300 DU
286	Which is the most toxic among the given?	A. heavy metals B. non-metals C. Metals D. Metalloids
287	Coal contains percentage of sulphur:	A. 1-9% B. 5-9% C. 6-9% D. 7-9%
288	Diseases like dysentery, typhoid and hepatitis are caused by mixing of in water:	A. Live stock wastes B. Oil spillage C. detergents D. pesticides
289	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
290	99.5% mass of lithosphere is made of	A. 03 elements B. 8 elements C. 11 elements D. 15 elements
291	Ozone is a gas having boiling point	A. Unstable B. High C. Low D. Moderate
292	Water is purified by:	A. Filtration B. aeration C. coagulation D. All of these
293	Air pollution causes	A. Acid rain B. O_3 depletion C. Green House Effect D. All
294	Solid waster 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
295	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
296	The pH rain of acid rain is	A. 8 - 7 B. 7 - 6.5 C. 6.5 - 6 D. less than 5
297	Primary pollutants are:	A. oxides of sulphur B. oxides of carbon C. oxides of nitrogen D. All of these
298	Chlorofluorocarbon, CF_2Cl_2 , plays an effective role in removing O_3 (ozone) in the stratosphere. Which reaction does not cause the depletion of ozone	
299	Transformation is a cyclic process in which used plactic is	A. Remelted and styrene is added B. Converted into low quality substance C. Converted back into original

		components D. None of these
300	Alkali metals react violently with halogens:	A. Halides B. Anhydrides C. Hydrides D. None of the above
301	Ecosystem is a smaller unity of	A. Nydosphere B. Biosphere C. Lithosphere D. Attmosphere
302	Pathogens in raw water are killed in step:	A. aeration B. coagulation C. chlorination D. treatment
303	Ozone acts as:	A. Pollutant B. saver C. oxidatant D. All of these
304	Addition of washing soda removes	A. Softness of water B. Temporary hardness of water C. Permanent hardness of water D. Hydrogen from water
305	Water is considered pollutant when value of Do is	A. 6 PPM B. 8 PPM C. 03 PPM D. 10 PPM
306	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
307	Which one of the following does not act as pollutant	A. Carbon monoxide B. Sulphur dioxide C. Hydrocarbons D. Carbon dioxide
308	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
309	Heat balance of earth is maintained by sphere:	A. Hydrosphere B. atmospheres C. lithosphere D. biosphere
310	Water exist in only	A. One state B. Two state C. Three states D. 4 states
311	Water bodies are included in:	A. Atmosphere B. Hydrosphere C. Lithosphere D. All of these
312	DDT is a:	A. Fungicide B. Insecticide C. Herbicide D. All
313	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
314	Lithosphere extends upto kilometer of earth crust in depth:	A. 10 km B. 100 km C. 1000 km D. 10000 km
		A. Sodium

315	Water in swimming pools is purified by adding	B. Chlorine C. Phosphorus D. Potassium
316	As the number of carbon atoms increase the number of isomers also increase. The six carbon compound hexane has as many as:	A. 10 isomers B. 3 isomers C. 5 isomers D. 6 isomers
317	An excellent source of energy without causing pollution is	A. Fossil fuel B. Sun C. Petroleum D. Nuclear reactor
318	Hydrosphere covers the surface of earth:	A. 70.8% B. 71.8% C. 72.8% D. 73.8%
319	Lead pollution is mainly due to	A. Metallic pollution B. Space pollution C. Acid rain D. Cd pollution
320	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
321	The pH range of acid rain is?	A. 7-6.5 B. 6.5-6 C. 6-5.6 D. Less than 5
322	Which 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
323	Chlorofluorocarbons and aerosols are inert in sphere:	A. troposphere B. stratosphere C. lithosphere D. hydrosphere