

ECAT Chemistry Chapter 27 Environmental Chemistry Online Test

Sr	Questions	Answers Choice
1	Polycyclic aromatic hydrocarbons are taught to be	A. Disinfectant B. Carcinogenic C. Helpful D. Reactive
2	SO ₂ Makes _____ acid rains	A. Carbonic acid B. Sulfuric C. Nitric acid D. All of these
3	When chlorofluoro carbon are subjected to U.V. they form	A. Cations B. Anions C. Free radicals D. None of these
4	Which one of the following dissolves more rapidly in blood hemoglobin than oxygen?	A. Ozone B. Nitrous oxide C. Sulphure dioxide D. Carbon monoxide
5	The region of earth capable of supporting life is	A. Hydrosphere B. Lithosphere C. Biosphere D. Atmosphere
6	Classical smog occurs in palces of	A. Excess SO ₂ B. Low temperature C. High temperature D. Excess NH ₃
7	Which step is unnecessary for purification of water for drinking purposes	A. Aeration B. Coagulation C. Treatment with chlorine D. Treatment with iodine
8	Which is not the affect of polluted air on environment	A. Acid rain B. Smog C. Ozone D. Global warming
9	The 95.5% mass of Lithosphone 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
10	Burning of fossil fuels is the main source of pollution	A. Nitrogen oxide B. Nitric oxide C. Nitrous oxide D. Sulphur dioxide
11	SO ₂ and NO ₂ produce pollution by increasing	A. Alkalinity B. Acidity C. Neutrality D. Buffer action
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	Ozone hole is maximum over	A. Europe B. Antarctica C. Asia D. Africa
14	Oceans cove _____ percent of the surface of the earth	A. 60 B. 70 C. 80 D. 97
15	Ecosystem is a smaller unit of	A. Hydrosphere B. Lithosphere C. Biosphere D. Atmosphere

16	When rain is accompanied by a thunderstorm, the collected rain water will have a pH value	A. Uninfluenced by occurrence of thunderstorm B. Which depends on the amount of dust in air C. Slightly lower than that of rain water without thunderstorm D. Slightly higher than that when the thunderstorm is not there
17	Which one is the most toxic?	A. Carbon B. CO C. CO ₂ D. SO ₂
18	In incinerating the waste is burnt at	A. 1000°C B. 100°C C. 2000°C D. 1500°C
19	Mottling of teeth is due to presence of an element in drinking water	A. Mercury B. Fluorine C. Boron D. Chlorine
20	Which heavy metals do not have any safe limits	A. As B. Hg C. Cr D. All of these
21	Cyclone collector is used for minimizing	A. Radioactive pollution B. Air pollution C. Noise pollution D. Water pollution
22	Acid rains are produced by	A. Excess NO ₂ and SO ₂ from burning fossil fuels B. Excess production of NH ₃ by industry and coal gas C. Excess release of carbon monoxide by incomplete combustion D. Excess formation of CO ₂ by combustion and animal respiration
23	Spraying of DDT produces pollution of	A. Air B. Air and water C. Air and soil D. Air, water and soil
24	Potable water is considered to be	A. Safe for human consumption B. Not safe for human consumption C. The surface water D. The ground water
25	As it passes into food chain, the concentration of DDT	A. Remains same B. Decreases C. Increases D. Unpredictable
26	Chief source of water and soil pollution is	A. Mining B. Thermal power plant C. Agro-industry D. All the above
27	Atmospheric pollutant is	A. CO ₂ B. CO C. O ₂ D. N ₂
28	In purification of potable water the coagulant used is	A. Nickel sulphate B. Copper sulphate C. Barium sulphate D. Alum
29	UV radiations bring about	A. Skin cancer B. Mouth cancer C. Lung cancer D. Liver cancer
30	Carbon monoxide is pollutant as it	A. Inactivates nerves B. Inhibits glycolysis C. Combines with oxygen D. Combines with hemoglobin
		A. Blow air B. Add

31	One of the environmental problem is the formation of oil slicks when oil is spilled from tankers in sea water. Which treatment is suitable to remove oil slicks	Na ₂ CO ₃ C. Use a specially made sorbent having flouring trapped in it D. Use a sorbent having Al ₂ O ₃ trapped in it
32	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
33	B.O.D is connected with	A. Organic matter B. Microbes C. Microbes and organic matter D. None of the above
34	Chromium (VI) is highly toxic and can cause	A. Blindness B. Cancer C. Liver problems D. Blood problems
35	Increased asthmatic attacks in certain seasons are related to	A. Inhalation of seasonal pollen B. Eating of seasonal vegetables C. Low temperature D. Wet and dry environment
36	Chlorofluorocarbon releases a chemical harmful to ozone	A. Fluorine B. Chlorine C. Nitrogen peroxide D. Sulphure dioxide
37	Drained sewage has B.O.D	A. More than that of water B. Less than that of water C. Equal to that of water D. None of the above
38	Depletion of ozone layer is due to	A. Oxides of nitrogen B. Oxides of carbon C. Oxides of sulphur D. None of the above
39	NO and NO ₂ gases in atmosphere are represented by	A. NO B. NO ₄ C. NO _x D. N _x O _y
40	The film forming components of paints are	A. Resins B. Thinners C. Pigments D. Driers
41	Soil salinity can be measured by	A. Calorimeter B. Potometer C. Porometer D. Conductivity meter
42	Ozone hole refers to	A. Hole in ozone layers B. Reduction in thickness of ozone layer in stratosphere C. Reduction of thickness of ozone in troposphere D. Increase concentration of ozone
43	Shahi Qilla may be destroyed by	A. Flood in Ravi B. Temperature mediated spoilage of marble C. Air pollutants from Lahore chemical industries D. All the above
44	The amount of oxygen in the lithosphere is about	A. 35.50% B. 40.60% C. 56.60% D. 50.50%
45	Minamata disease is due to pollution of	A. Organic waste into drinking water B. Oil spill in water C. Industrial waste containing mercury into fishing water D. Arsenic into the atmosphere
46	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
		A. CO

47	Photochemical smog is caused by	B. CO ₂ C. O ₃ D. NO ₂
48	The pH range of the acid rain is	A. 8 - 7 B. 7 - 6.5 C. 6.5 - 6 D. Less than 5
49	Eutrophication causes reduction in	A. Dissolved hydrogen B. Dissolved oxygen C. Dissolved salts D. All the above
50	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
51	Ozone depletion in stratosphere shall result in	A. Forest fires B. Increased incidence of skin cancer C. Global warming D. None of the above
52	Ozone layer of stratosphere requires protection from indiscriminate use of	A. Fungicides, insecticides, bactericides and medicines B. Aerosols and high flying jets C. Atomic explosions and industrial wastes D. Balloons and turbo-prop aeroplanes
53	Which one of the following is not air pollutant gas	A. CO B. CO ₂ C. NO D. SO ₂
54	Ultraviolet radiation from sun causes a reaction that produces	A. Fluorides B. Carbon monoxide C. Sulphur dioxide D. Ozone
55	Most hazardous metal pollutant of automobile exhaust is	A. Mercury B. Lead C. Cadmium D. Copper
56	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
57	Carbon monoxide, emitted by automobiles, prevents transport of oxygen in body due	A. Combining with oxygen to form carbon dioxide B. Destruction of hemoglobin C. Preventing reaction between oxygen and hemoglobin D. Forming stable compound with hemoglobin
58	In the atmosphere, O ₂ is about	A. 10% B. 15% C. 21% D. 25%
59	The largest item which is recycled is	A. Newspaper B. Plastic C. Aluminium D. Oil
60	Which is not a method for solid waste management	A. Landfill B. Incinerating C. Recycling D. None of these
61	Atmosphere of big/metropolitan cities is polluted most by	A. Automobile exhausts B. Pesticide residue C. Household waste D. Radio-active fall out
62	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 breaks and spills D. All of the above
63	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

64	Which gasses are produced from landfills	A. NH_3 B. H_2S C. N_2 D. All of these
65	BOD is	A. Biological oxygen deficit B. Biosphere oxygen demand C. Biological oxygen demand D. None of the above
66	In Antarctica ozone depletion is due to the formation of following compound	A. Acrolein B. Peroxy acetyl nitrate C. SO_2 and SO_3 D. Chlorine nitrate
67	Which of the following waste material is not recycled for use again	A. Paper B. Plastic C. Hides of animals D. Glass
68	A pollutant affects	A. Human health B. Quality of life C. Functioning of ecosystem D. All of these
69	Which of the following forms a toxic substance in blood by combining with hemoglobin?	A. Carbon dioxide B. Carbon monoxide C. Oxygen D. Methane
70	Environmental pollution affects	A. Biotic components B. Plants only C. Man only D. Biotic and abiotic components of environment
71	Fungicides are the pesticides which	A. Control the growth of fungus B. Kill insects C. Kill plants D. Kill herbs
72	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	
73	Which of the following is responsible for depletion of the ozone layer in the upper strata of the atmosphere?	A. Fullerenes B. Freons C. Polyhalogens D. Ferrocene
74	Result of ozone hole is	A. Green house effect B. Global warming C. Acid rain D. UV rays reach the earth
75	Chief air pollutant which is likely to deplete ozone layer	A. Sulphure dioxide B. Carbon dioxide C. Nitrogen oxides and chloro fluorocarbons
76	Pollutant of automobile exhausts that affects nervous system/produces mental diseases is	A. Mercury B. Lead C. Nitrogen oxide D. Sulphuric oxide
77	The normal amount of overhead ozone is about	A. 250 DU B. 300 DU C. 350 DU D. 400 DU
78	Which gas is not a constituent of atmosphere	A. Xe B. O_3 C. H_2 D. F_2
79	Water pollution is mainly due to	A. Sulphure dioxide B. Carbon dioxide C. Oxygen D. Industrial discharges
80	Ecology is a science of environment and deals specially with	A. Stratosphere B. Biosphere C. Lithosphere D. Hydrosphere
81	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
82	Pollution is	A. Removal of top soil B. Release of toxic/undesirable materials in environment C. Conservation of energy D. All the above
83	Which of the following is not an air	A. N_2 B. N_2O C. NO D. CO
84	Industrial effluents have toxic synthetic organic compounds as well as heavy metals like	A. Pb B. Cr C. Hg D. All of these
85	Phosphate pollution is caused by	A. Weathering of phosphate rocks only B. Agricultural fertilizers C. Phosphate rocks and sewage D. Sewage and agricultural fertilizers
86	Biodegradable pollutant is	A. Plastic B. Asbestos C. Sewage D. Mercury
87	Which factor is helping to reduce the environmental pollution	A. Rapid growth of population B. Urbanization C. Industrialization D. Increase of plantation
88	The % of CO_2 in the atmosphere is	A. 3.0% B. 0.03% C. 0.3% D. 0.5%
89	Water is often treated with chlorine to	A. Increase oxygen content B. Kill germs C. Remove hardness D. Remove suspended particles
90	What is the cause of water pollution	A. Chemical and bacterial contents in live stock B. The spilled oil in rivers and ponds C. Wide spread use of pesticides D. All of the above
91	Swage water is purified by	A. Microorganisms B. Light C. Fishes D. Aquatic plants
92	Which causes water pollution?	A. Smoke/fly ash B. Automobile exhausts C. Aeroplne D. 2,4-D and pesticides
93	Acid rain is due to increase in atmospheric concentration of	A. Ozone and dust B. CO_2 and CO C. SO_3 and CO D. SO_2 and NO_2
94	Domestic waste mostly constitutes	A. Non-biodegradable pollution B. Biodegradable pollution C. Effluents D. Air pollution
95	DDT is	A. Biodegradable pollutant B. Nondegradable pollutant C. Not a pollutant D. An antibiotic
96	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
97	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 reaction to take place C. Air must be blowing swiftly D. There must be SO_2 in the air

A. Headache

98	Exposure to CO results in	B. Fatigue C. Unconsciousness D. All of these
99	The amount of Si in the lithosphere is about	A. 27.72% B. 30.35% C. 35.30% D. 40.21%
100	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
101	Sulphur dioxide affects	A. Cell wall B. Plasmodesmata C. All membrane systems D. Nucleus
102	Carbon monoxide is harmful to human beings as it	A. Is carcinogenic B. Is antagonistic to CO ₂ C. Has higher affinity for hemoglobin as compared to oxygen D. Is destructive to O ₃
103	Chromium (VI) is highly toxic and can cause	A. Blindness B. Cancer C. Liver problems D. Blood problems
104	Which one is not a pollutant normally?	A. Hydrocarbons B. Carbon dioxide C. Carbon monoxide D. Sulphur dioxide
105	Air pollution is not caused by	A. Pollen grains B. Hydroelectric power C. Industries D. Automobiles
106	In water the most important oxidizing agent is dissolved molecular oxygen which ranges from	A. 2 - 4 ppm B. 4 - 6 ppm C. 2 - 5 ppm D. 4 - 8 ppm
107	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
108	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
109	Which is not a component of environment	A. Biosphere B. Lithosphere C. Hydrosphere D. None of these
110	Increasing skin cancer and high mutation rate are due to	A. Acid rain B. Ozone depletion C. CO pollution D. CO ₂ Pollution
111	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
112	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
113	In the atmosphere, CO ₂ is about	A. 0.01% B. 0.03% C. 0.05% D. 0.09%
114	Pick up the correct statement	A. CO which is major pollutant resulting from the combustion of fuels in automobile plays a major role in photochemical smog B. Classical smog has an oxidizing character while the photochemical smog is reducing in character

is reducing in character.
C. Photochemical smog occurs in day time whereas the classical smog occurs in early morning hours
D. During formation of smog the level of ozone in the atmosphere goes down

115 A single chlorine free radical can destroy how many ozone molecules

- A. 100
- B. 100000
- C. 10000
- D. 10

116 Drawback DDT as pesticide is

- A. It becomes ineffective after some time
- B. It is less effective than others
- C. It is not easily/rapidly degraded in nature
- D. Its high cost

117 Which one is the major reason for pollution in high cities?

- A. Fossil fuel
- B. Acid rain
- C. Heat dispersion
- D. None of the above

118 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+}