



## BIOLOGY

### BOOKS - AAKASH SERIES

### ENVIRONMENTAL ISSUES

#### Exercise I Introdution Kinds Of Pollution

1. Effect of pollution is seen on

A. variation

B. crop rotation

C. mutation

D. ecological balance

**Answer: D**

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2. The Environment protection Act was passed in the year

A. 1971

B. 1974

C. 1981

D. 1986

**Answer: D**

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3. Most harmful type of environmental pollutants are

- A. human organic wastes
- B. wastes from feedlots
- C. Bio degradable pollutants
- D. e-wastes

**Answer: A**



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4. Non-biodegradable pollutants are created by

- A. Nature

B. Excessive use of resources

C. Humans

D. Natural disasters

**Answer: C**



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**5. Which of the following material takes the longest time for biodegradation?**

A. Cotton

B. Paper

C. Bone

D. Jute

**Answer: C**



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## Exercise I Air Pollution

1. Statement-I (S-I) : Automobiles are major cause for air pollution in cities.

Statement-II (S-II) : Increase in the number of vehicles running by fossil fuels increased in recent years.

- A. Statement- I and statement- II both are correct
- B. Statement- I is correct and statement- II is
- C. Statement- I is wrong and statement- II is correct
- D. Statement- I and statement- II both are wrong

**Answer: A**



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2. Statement- I : Air quality in Delhi has improved significantly, compared to past.

Statement- II : The public transport system in Delhi changed the fuel from diesel to CNG.

- A. Statement- I and statement- II both are correct
- B. Statement- I is correct and statement- II is
- C. Statement- I is wrong and statement- II is correct
- D. Statement- I and statement- II both are wrong

**Answer: A**

3. Match the following .

Column-I

- A) Necrotic spots
- B) Irregular heartbeat
- C) Destroys ciliary epithelium
- D) Sleeplessness

Column-II

- 1) Noise pollution
- 2) Nox
- 3) Aerosoles
- 4)  $SO_2$

A. A - 4, B - 3, C - 2, D - 1

B. A - 1, B - 2, C - 3, D - 4

C. A - 2, B - 3, C - 4, D - 1

D. A - 3, B - 2, C - 4, D - 1

**Answer: C**

4. Match the items in Column - I with those in Column - II and choose the correct option from the codes given below :

Column-I

Column-II

- |                         |                    |
|-------------------------|--------------------|
| (a) Catalytic converter | (i) Hospital waste |
| (b) Muffler             | (ii) $SO_2$        |
| (c) Incinerator         | (iii) Noise        |
| (d) Scrubber            | (iv) CO            |

- A. (a) (b) (c) (d)  
(iii) (iv) (i) (ii)
- B. (a) (b) (c) (d)  
(iv) (iii) (ii) (i)
- C. (a) (b) (c) (d)  
(iv) (i) (iii) (ii)
- D. (a) (b) (c) (d)  
(iv) (iii) (i) (ii)

**Answer: D**



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5. Automobile exhaust gas that causes major respiratory problem is

A. CO

B.  $CH_4$

C. chlorine

D.  $NO_2$

**Answer: A**



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6. Major cause of air pollution in big cities is

A. domestic exhaust

- B. automobile exhaust
- C. burning of cooking gas
- D. thermal power plant

**Answer: B**

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7. Increase in atmospheric  $CO_2$

- A. has adverse effect on vegetation
- B. brings no change in atmosphere
- C. leads to genetic disorders
- D. leads to rise in global temperature

**Answer: D**



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**8.** Which of the following is not likely to happen as a result of the rising levels of  $CO_2$  in our atmosphere ?

- A. increased incidence of skin cancers
- B. rise in sea levels
- C. change in climatic patterns
- D. shift in locations of deserts and forests

**Answer: A**



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9. Which of the following pairs is mismatched ?

- A. Biomass burning-Release of sulphur dioxide
- B. Fossil fuel burning- Release of carbon dioxide
- C. Nuclear power- Radioactive wastes
- D. Water vapour- Green house effect

**Answer: A**

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10. 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

**Answer: A**

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**11. Which of the following is a secondary pollutant?**

A. CO

B. PAN

C.  $CO_2$

D. hydrogen sulphide

**Answer: B**



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12. Photochemical smog does not contain

A. Ozone

B. Nox

C. PAN

D. Carbon monoxide

**Answer: D**



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**13. Statement- I :** In the metropolitan cities of India, many children are suffering from allergy/ asthma.

**Statement - II :** In metropolitan cities life style is responsible in lowering of immunity and sensitivity to allergens.

Statement- I and statement- II both are correct

Statement- I is correct and statement- II is wrong

Statement- I is wrong and statement- II is correct

Statement- I and statement- II both are wrong

A. Statement- I and statement- II both are correct

B. Statement- I is correct and statement- II is

C. Statement- I is wrong and statement- II is correct

D. Statement- I and statement- II both are wrong

**Answer: A**



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**14.** Observe the figure given below and select the correct statements .

- I) The power generation by the above method is non-polluting
- II) It is a kind of non conventional renewable energy source
- III) It uses photovoltaic cell





I & II only

I & III only

III only

All are correct

A. I & II only

B. I & III only

C. III only

D. All are correct

**Answer: A**



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**15. Which one of the following pairs is mismatched ?**

A. Fossil fuel burning- release of  $CO_2$

B. Nuclear power- Radioactive wastes

C. Solar energy- Green house effect

D. Biomass burning- release of  $CO_2$

**Answer: C**



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**16.** Identify the correctly matched pair

A. 1)Basal Convention- Biodiversity Conservation

B. 2)Kyoto Protocol- Climatic change

C. 3)Montreal Protocol - Global warming

D. 4)Ramsar Convention- Ground water pollution

**Answer: B**



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**17.** Recently Govt. of India has allowed mixing of alcohol in petrol. What is the amount of alcohol permitted for mixing in petrol ?

A. 2.5 %

B. 10 – 15 %

C. 10 %

D. 5 %

**Answer: D**



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**18.** Which is not a control measure to reduce particulate matter in environment?

A. Cyclonic separators

B. Scrubbers

C. Effluent treatment

D. Electrostatic precipitator

**Answer: B**



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**19.** Which of the following is the most dangerous metal pollutant of automobile exhaust ?

A. Cadmium

B. Copper

C. Mercury

D. Lead

**Answer: D**





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20. Catalytic converter in vehicle is used for controlling:

- A. air pollution
- B. radioactive pollution
- C. sewage and chemical from industry
- D. nuclear pollution

**Answer: A**



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21. Electrostatic precipitators are extensively employed to control

- A. water pollution
- B. air pollution
- C. radioactive pollution
- D. none of these

**Answer: B**

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**22.** Euro-II (April 2000) is the emission norm for reducing

- A.  $O_2$  and  $CO$
- B.  $NO_2$  and  $N_2O$
- C. Sulphur and Aromatic hydrocarbons

D.  $CO_2$  and particulate matter

**Answer: C**

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**23.** The most effective device to remove particulate matter from polluted air is

- A. electrostatic precipitator
- B. cyclonic separator
- C. trajectory separator
- D. scrubber

**Answer: A**







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24. Use of CNG instead of diesel reduces air pollution because

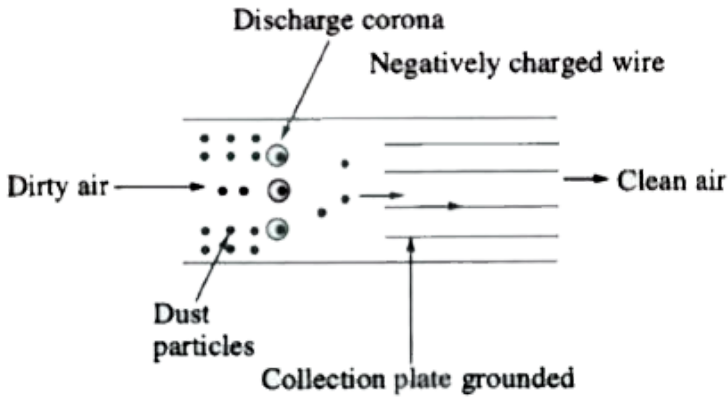
- A. it is cheaper
- B. it burns efficiently
- C. catalytic converters work efficiently
- D. it cannot be adulterated

**Answer: B**



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25. Observe the following device. It is used to control



- A.  $SO_2$  pollution
- B. Nox pollution
- C. particulate matter pollution
- D. CO pollution

**Answer: C**

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26. According to the Central Pollution Control Board, particles that are responsible for causing great harm to human health are of diameter.

A. 2 . 50 micrometers

B. 5 micrometers

C. 10 micrometers

D. 7.5 micrometers

**Answer: A**



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27. Compressed natural Gas (CNG) is

A. Propane

B. Methane

C. Ethane

D. Butane

**Answer: B**

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**28.** Among the following which one causes more indoor chemical pollution ?

A. Burning coal

B. Burning cooking gas

C. Burning mosquito coil

D. Room spray

**Answer: A**



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**29.** Catalytic converters are fitted into automobiles to reduce emission of harmful gases. Catalytic convertes change unburnt hydrocarbons into

A. Carbon dioxide and water

B. Carbon monoxide

C. Methane

D. Carbon dioxide and methane

**Answer: A**



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**30.** Why is it necessary to remove sulphur from petroleum products ?

- A. To reduce the emission of sulphur dioxide in exhaust fumes
- B. To increase the efficiency of automobile engines
- C. For commercial purposes
- D. To increase the span of engine silencers

**Answer: A**



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**31.** Montreal Protocol, which calls for appropriate action to protect the ozone layer from human activities, was passed in the year

A. 1987

B. 1988

C. 1985

D. 1986

**Answer: A**



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32. Bhopal gas tragedy of 1984 took place because methyl isocyanate reacted with

- A. reacted with DDT
- B. reacted with ammonia
- C. reacted with  $CO_2$
- D. reacted with water

**Answer: D**

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33. The city in which the entire public road transport runs on CNG



A. 1)Delhi

B. 2)Patna

C. 3)Hyderabad

D. 4)Mumbai

**Answer: A**



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**34.** A major component of gobar gas is

A. Ammonia

B. Methane

C. Ethane

D. Butane

**Answer: B**



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**35.** The loudness of a sound that a person can withstand discomfort is about

A. 150 dB

B. 215 dB

C. 30 dB

D. 80 dB

**Answer: D**





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**36.** The major source of noise pollution, worldwide is due to

- A. Office equipment
- B. Transport system
- C. Sugar, textile and paper industries
- D. Oil refineries and thermal power plants

**Answer: B**



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**37.** The loudness of a sound that a person can withstand without discomfort is about

A. 70 dB

B. 80 Db

C. 100 dB

D. 120 Db

**Answer: D**



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**38.** The quietest sound that the ear of a man can detect is known as

A. Acoustic zoning

B. Threshold of hearing

C. Threshold of pain

D. Green muffler

**Answer: B**

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**39.** What was added in 1987 as a pollutant to air (Prevention and Control of Pollution) Act, [originally passed in 1981]

- A. radioactive wastes
- B. CFCs
- C. ground level ozone
- D. noise

**Answer: D**





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40. Sound becomes hazardous noise pollution at level.

A. 30 dB

B. 80 dB

C. 120 dB

D. 150 dB

**Answer: B**



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41. The first effect of noise is

A. constriction of blood vessels

B. anxiety and stress reactions

C. increased heart beat

D. digestive spasm

**Answer: B**



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**42.** The material generally used for sound proof- ing of rooms like a recording studio and audi- torium, etc. is

A. Cotton

B. Coir

C. Wood

D. Styro foam

**Answer: D**



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## Exercise I Water Pollution

1. Fluoride pollutions mainly affects : -

A. Brain

B. heart

C. teeth

D. Kidney



**Answer: C**



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**2. Which causes water pollution?**

A. Sewage and pesticides

B. e-water

C. ODS

D. Smelting or ores

**Answer: A**



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3. Municipal waste, containing human and animal excreta, food residues, detergents etc. and rich in bacteria and organic substances, is called.

A. sewage

B. e-wastes

C. slurry

D. sludge

**Answer: A**



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4. Sewage water can be purified by

A. aquatic plants

B. penicillin

C. microorganisms

D. fish

**Answer: C**



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5. If water pollution continues at its present rate, it will eventually

A. stop water cycle

B. stop precipitation

C. make oxygen molecule unavailable to water plants

D. make nitrate molecules unavailable to water plants

**Answer: C**



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**6.** Natural ageing of a lake by biological enrichment of its water is known as

A. Eutrophication

B. Biomagnification

C. Bioremediation

D. Biofortification

**Answer: A**





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7. Eutrophication leads to death of fish due to

- A. Decreased O<sub>2</sub> concentration
- B. Increased O<sub>2</sub> concentration
- C. Both
- D. None

**Answer: D**



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8. What is BOD ?

- A. The amount of  $O_2$  utilized by organisms in water
- B. The amount of  $O_2$  utilized by micro-organisms for decomposition
- C. The total amount of  $CO_2$  present in water
- D. All of the above

**Answer: B**

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**9.** If BOD of river is high, it means that the river is

- A. not polluted
- B. highly polluted

C. gets least amount of light

D. temperature of water is low

**Answer: B**



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**10. Terror of Bengal is**

A. *Anguilla bengalensis*

B. *Eichhornia crassipes*

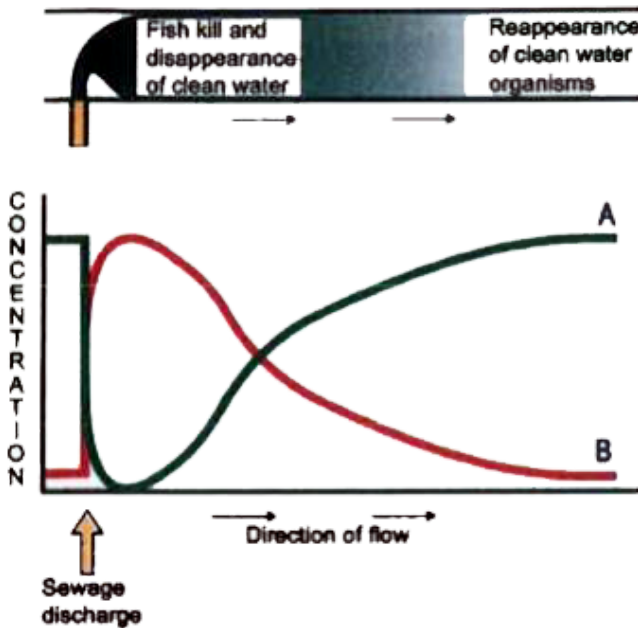
C. *Clarias gariepinus*

D. *Parthenium hysterophorum*

**Answer: B**

11. Read the following .

In the above .A. and .B. respectively are



A. Dissolved  $O_2$  and BOD

B. BOD and dissolved  $O_2$

C. Dissolved  $O_2$  and COD



D. COD and dissolved  $O_2$

**Answer: A**

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12. Algal blooms in a lake

- A. Leads to oxygen depletion
- B. Kills fishes and other organisms
- C. Increase carbon dioxide level
- D. All

**Answer: A**

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**13. Water pollution**

- A. increases oxygenation
- B. decreases turbidity
- C. increases turbidity and deoxygenation
- D. increases photosynthesis

**Answer: C**

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**14. The release of phosphates and nitrates in water bodies (i.e., in rivers and lakes) leads to**

- A. Nutrient depletion
- B. Reduced algal growth
- C. Increased algal growth
- D. Increased growth of decomposers

**Answer: C**

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**15.** The term 'biomagnification' refers to the

- A. Growth of organism due to food consumption
- B. Increase in population size

C. Increase in concentration of degradable pollutants as they pass through food chain

D. increase in concentration non degradable pollutants as they pass through food chain

**Answer: D**

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**16. BOD is measure of**

A. Extent of pollution with organic compounds

B. Oxygen required by green plants during night

C. CO combined in blood

D. none of these

**Answer: B**

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17. In piped water supply system water is often treated with chlorine to

- A. remove hardness
- B. kill germs
- C. increase oxygen level
- D. remove algae

**Answer: B**





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**18.** Which among the following is likely to have the highest levels of D.D.T. Depositions in its body?

A. sea gull

B. phytoplankton

C. eel

D. crab

**Answer: A**



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19. A test procedure based on the chemical decomposition of organic and inorganic chemicals suspended in water is

- A. BOD
- B. CFC
- C. COD
- D. APC

**Answer: C**

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20. High concentrations of accumulated DDT in birds

- A. 1)kills pathogens in their blood

B. 2)causes sterility by affecting gametogenesis

C. 3)leads to premature breaking of eggs

D. 4)causes spasticity of the muscles of the body

**Answer: C**



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**21. Insecticides usually act upon**

A. Dugestive system

B. Nervous system

C. Circulatory system

D. Muscular system



**Answer: B**



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**22. Which of the following is called eutrophication?**

Deterioration of water quality due to organic matter

Deterioration of water due to accumulation of algae

Improvement in quality of water due to dissolved oxygen

Deterioration of water quality of water body because of enrichment with nutrients

A. Deterioration of water quality due to organic matter

B. Deterioration of water due to accumulation of algae

C. Improvement in quality of water due to dissolved oxygen

D. Deterioration of water quality of water body because of enrichment with nutrients

**Answer: D**



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23. Thermal pollution of water bodies is due to discharge of

- A. chemicals from industries
- B. heat from power plants
- C. agricultural runoff water
- D. wastes from mining

**Answer: B**



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24. When temperature increases dissolved oxygen of water

- A. increases
- B. decreases
- C. remain same
- D. first increases, then decreases

**Answer: B**



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25. Water ( prevention and control of pollution ) Act was passed in the year

A. 1974

B. 1973

C. 1970

D. 1975

**Answer: A**



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**26.** Ganga Action Plan for controlling pollution in Ganges started in

A. 1985

B. 1981

C. 1987

D. 1989

**Answer: A**

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27. World's most problematic aquatic weed is

A. Azolla

B. Wolffia

C. Eichhornia

D. Trapa

**Answer: C**

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28. Which of the following causes biomagnification ?

A.  $SO_2$

B. Mercury

C. DDT

D. Both 2 and 3

**Answer: D**



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29. The expanded form of DDT is

A. Dichloro diphenyl trichloroethane

- B. Dichloro diethyl trichloroethane
- C. Dichloro dipyrydyl trichloroethane
- D. Dichloro diphenyl terachloroacetate

**Answer: A**



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**30.** The green scum seen in the freshwater bodies is

- A. Blue green algae
- B. Red algae
- C. Green algae
- D. Both (1) and (3)

**Answer: D**



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**31.** Match correctly the following and choose the correct option

<i>A.</i> Environment protection Act	1.	1974
<i>B.</i> Air prevention and Control of pollution	2.	1987
<i>C.</i> Water Act	3.	1986
<i>D.</i> Amendment of Air Act to include noise	4.	1981

A. i-C, ii-D, iii-A, iv-B

B. i-A, ii-C, iii-B, iv-D

C. i-D, ii-A, iii-B, iv-C

D. i-C, ii-D, iii-B, iv-A

**Answer: A**





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32. Which one of the following impurities is easiest to remove from wastewater ?

A. Bacteria

B. Colloids

C. Dissolved solids

D. Suspended solids

**Answer: D**



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**33.** Which one of the following diseases is not due to contamination of water?

A. Hepatitis - B

B. Jaundice

C. Cholera

D. Typhoid

**Answer: A**

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**34.** Nuisance growth of aquatic plants and bloom-forming algae in natural waters is generally due to high concentrations of

A. Carbon

B. Sulphur

C. Calcium

D. Phosphorus

**Answer: D**



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**35.** Algal blooms impart a distinct colour to water due to

A. Their pigments

B. Excretion of coloured substsces

- C. Formation of coloured chemicals in water facilitated by physiological degradation of algae
- D. Absorption of light by algal cell wall

**Answer: A**

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**36.** Escherichia coli is used as an indicator organism to determine pollution of water with , -

- A. pollen of aquatic plants
- B. heavy metals
- C. faecal matter
- D. industrial effluents

**Answer: C**



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**37. Which of the following is absent in polluted water?**

- A. Hydrilla
- B. water hyacinth
- C. Larva of stone fly
- D. Blue green algae

**Answer: A**



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**38.** Lead concentration in blood is considered alarming if it is

- A. 20 micrograms /100 ml
- B. 10-15 micrograms/100ml
- C. 4-6 micrograms/100ml
- D. 10 micrograms/100 ml

**Answer: C**



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**39.** Which of the following is not used for the disinfection of drinking water?

A. Chlorine

B. Ozone

C. Chloramine

D. Phenyl

**Answer: D**



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## Exercise I Soil Land Pollution

1. Select the incorrect statement for e-wastes

A. Recycling is the only solution for treatment

B. Bulk of the waste is biodegradable

C. They are buried in landfills or incinerated

D. Used to recover metals like copper, iron, silicon, nickel  
and gold

**Answer: B**



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2. Water logging and soil salinity are the problems that  
have come in the wake of

A. green revolution

B. white revolution

C. blue revolution

D. round revolution



**Answer: A**



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3. In collaboration with which one, Ahmad Khan proved that blends of polyblend and bitumen, when used to lay roads, enhanced the bitumen's water repellent properties, and helped to increase roadlife by a factor of three.

- A. R.V. College of Engineering
- B. The Bangalore City Corporation
- C. Three Mile Island
- D. Both 1 and 2

**Answer: D**

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4. Pollution caused by persistent pesticides is more hazardous to

- A. Herbivores
- B. First level carnivores
- C. Producers
- D. Top-carnivores

**Answer: D**

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5. Spraying of pesticide is an example of

A. Point source water pollution

B. Diffuse water pollution

C. Both (1) & (2)

D. Pyrolysis

**Answer: B**



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6. To spread information and help on the practice of integrated organic farming is started by a group of farmers in

A. Haryana

B. Bangalore

C. Delhi

D. Jodhpur

**Answer: A**



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7. The polyblend developed by Ahmad Khan is a possible solution to accumulating solid wastes  
method for dealing with electronic wastes  
synthetic fiber produced in India

Mixture meant to lay roads with greater life span

A. possible solution to accumulating solid wastes

B. method for dealing with electronic wastes

C. synthetic fiber produced in India

D. Mixture meant to lay roads with greater life span

**Answer: D**



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**8.** Match the items in column I and column II and choose the correct option.

Column -I

A. *UV*

B. Biodegradable organic matter

C. *DDT*

D. Phosphates

Column-II

1. Biomagnification

2. Eutrophication

3. Snow blindness

4. BOD

A. A-ii, B-i, C-iv, D-iii

B. A-iii, B-ii, C-iv, D-i

C. A - iii, B- iv, C-i, D-ii

D. A - iii, B- i, C-iv, D-i

**Answer: C**



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**9. Recycling is a method for controlling**

A. 1)Solid waste

B. 2)Nuclear waste

C. 3)Hospital waste

D. 4)Toxic waste

**Answer: A**

10. The ecological terms suitable to describe the DDT accumulation at different trophic levels are given below.

Select the right combination

I) Biomagnification term is used to describe the DDT accumulation at different trophic levels

II) DDT causes thinning of egg shell

III) DDT accumulation lead to eutrophication

A. I & II only

B. I, II & III only

C. I only

D. All are correct

**Answer: C**



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## Exercise I Radioactive Pollution

1. Wastes may be sealed in concrete - filled drums and discharged to a depth of about 500m. This specific statement is true for :

- A. Pesticide pollutants
- B. U.V. radiation pollutants
- C. Heavy metal pollutants
- D. All radioactive pollutants



**Answer: D**



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2. Three Mile Island and Chernobyl incidents are commonly associated with

- A. accidental leakage of radioactive materials
- B. Leakage of methane
- C. Green house emission
- D. Biomagnification

**Answer: A**



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3. Large scale global threat is in the form of

- A. 1) Global warming
- B. 2) Ozone hole
- C. 3) Water pollution
- D. 4) Soil erosion

**Answer: A**



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4. During the past century, the temperature of earth has increased by

- A.  $15^{\circ}C$

B.  $33^{\circ}\text{C}$

C.  $0.6^{\circ}\text{C}$

D.  $1.6^{\circ}\text{C}$

**Answer: C**



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5. Which of the following pair does not represent greenhouse gases ?

A.  $\text{CO}_2$  and  $\text{CH}_4$

B.  $\text{CH}_4$  and  $\text{N}_2\text{O}$

C.  $\text{O}_3$  and  $\text{SO}_2$

D.  $\text{N}_2\text{O}$  and  $\text{CFCs}$

**Answer: C**



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**6. Greenhouse gases are**

A. Absorbers of long-wave radiations from earth

B. Transparent of both solar radiations and long wave radiations from earth

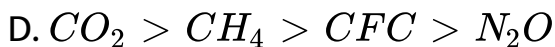
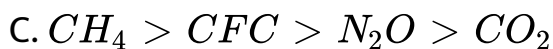
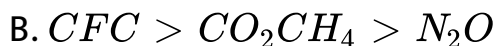
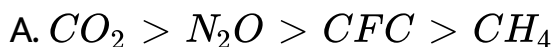
C. Absorbers of solar radiations for warming the atmosphere

D. Transparent to emissions from earth for passage into outer space

**Answer: A**

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7. Arrange CFC,  $CH_4$ ,  $N_2O$  and  $CO_2$  in decreasing order according to their contribution in green house effect



**Answer: D**

 [Watch Video Solution](#)

8.  $CO_2$ ,  $CH_4$ ,  $N_2O$  and CFC are green house gases, because they can

A. absorb ultraviolet radiation

B. re reflect infrared radiation

C. visible light rays

D. absorb infrared radiation

**Answer: B**



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9. Global warming will causes

A. rise in level of oceans

- B. decrease in glaciers
- C. reduction in polar ice caps
- D. all of these

**Answer: D**

 [Watch Video Solution](#)

**10.** Greenhouse effect is due to

- A. accumulation of  $O_3$  and depletion of  $CO_2$
- B. accumulation of  $O_3$  and  $CO_2$
- C. accumulation of  $CO_2$  and depletion of forests
- D. green plants on the earth

**Answer: C**



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**11.** Checking of reradiating heat by atmospheric dust  $O_3$ ,  $CO_2$  and water vapours is

A. green house effect

B. radioactive effect

C. ozone effect

D. solar effect

**Answer: A**

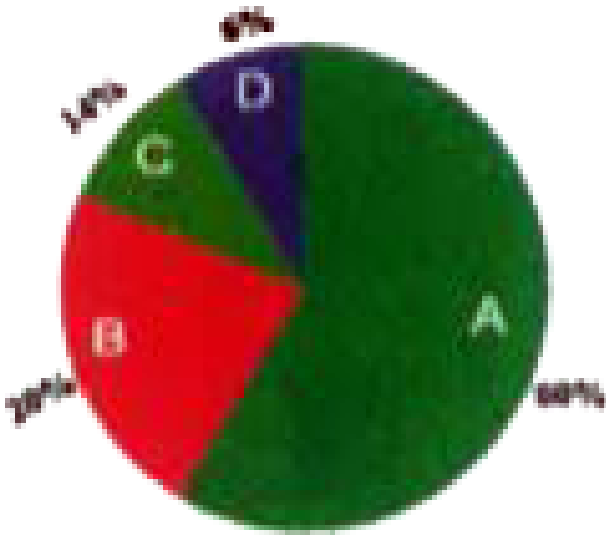


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12. Read the following pertaining to components the cause global warming

If A = 60%, B = 20%, C = 14% and D = 6% then A, B, C, and D are



- A. 

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
$CO_2$	Methane	$CFCs$	$N_2O$
- B. 

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
$N_2O$	Methane	$CFCs$	$CO_2$
- C. 

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
Methane	$N_2O$	$CFCs$	$CO_2$

- D. 

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
$CO_2$	<i>CFCs</i>	$N_2O$	Methane

**Answer: A**

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13. Kyoto protocol is

- A. to mitigate the climatic change
- B. to check depletion of ozone layer
- C. to check soil erosion
- D. to preserve Bio diversity

**Answer: A**

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14. Surface of earth is kept warm by

(a) Solar radiations

(b) Geothermal energy

(c) Green houses flux

(d) Absorption of infrared radiations by green house gases

A. solar radiations

B. geothermal energy

C. greenhouse flux

D. absorption of infrared radiations by greenhouse  
gases

**Answer: C**



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15. Which of the Following conference obtained commitments from different countries for reducing overall greenhouse gas emission at a level 5% below 1990 level by 2008-2012?

- A. Kyoto protocol, 1997
- B. Earth summit, Rio-de-Janeiro, 1992
- C. Montreal protocol , 1987
- D. Helsinki Declaration, 1989

**Answer: A**

 [Watch Video Solution](#)

16. A chemical weed in troposphere and protectant in stratosphere is



**Answer: B**



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17. Ultraviolet radiations from sunlight cause a reaction which produces

A. fluorides

B. carbon monoxide

C. sulphur dioxide

D. ozone

**Answer: D**



**Watch Video Solution**

**18.** The UV- rays in atmosphere are checked by

A. 1)  $O_3$

B. 2)  $O_2$

C. 3)  $H_2$

D. 4) $Cl_2$

**Answer: A**



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**19. Ozonosphere is mainly depleted by**

A. Excess CO

B. Excess  $CO_2$

C. CFCs

D. Ozone

**Answer: C**



**Watch Video Solution**

20. Chlorofluorocarbons are not being used in refrigerators because they

- A. increase temperature
- B. deplete ozone
- C. affect environment
- D. affect human body

**Answer: B**



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21. The following is not an ozone depleting substance



A.  $H_2S$

B. CFCs

C.  $NO_X$

D. Methane

**Answer: A**



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**22. Ultraviolet radiations produce the photo oxidant**

A.  $SO_2$

B. Flouride

C. CO

D.  $O_3$

**Answer: D**



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**23.** Ozone hole is the area where

- A. ozone is absent
- B. thick layer of ozone is present
- C. thinning of ozone occurs
- D. none of the above

**Answer: C**



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24. CFC s split up in stratosphere to release chlorine by the action of

A. UV-A

B. UV-B

C. UV-C

D. all of these

**Answer: C**



**Watch Video Solution**

25. The following is the unit of ozone

A. db

B. dB

C. Sv

D. DU

**Answer: D**



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**26.** In troposphere,  $O_3$  promotes

A. oxidation of biochemicals

B. destruction of chlorenchyma

C. both (1) and (2)

D. growth of plants

**Answer: C**

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27. What is bad ozone ?

- A. Ozone formed in troposphere
- B. Ozone formed in lower stratosphere
- C. Ozone found in upper stratosphere
- D. Ozone formed in lab

**Answer: A**

 [Watch Video Solution](#)

28. Montreal Protocol was aimed to

- A. To reduce green house gases
- B. Limit the production and use of ODS
- C. Mitigate climatic change
- D. Implement Agenda 21

**Answer: B**



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29. Montreal protocol was signed in

- A. 1978

B. 1987

C. 1991

D. 1993

**Answer: B**



**Watch Video Solution**

**30.** Inflammation to cornea is caused by

A. UVA

B.  $CO_2$

C. UVB

D. CFCs

**Answer: C**



**Watch Video Solution**

**31.** In the textbook you came across three mile island and chernobyl disasters associated with accidental leakage of radioactive wastes. In India we had Bhopal gas tragedy. It is associated with which of the following?

A.  $CO_2$

B. Methyl Iso-Cyanate

C. CFC's

D. Methyl cyanate

**Answer: B**



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**32. Domestic waste constitutes**

- A. non-biodegradable pollutants
- B. biodegradable pollutants
- C. effluents
- D. gaseous pollutants

**Answer: B**

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**33. Most harmful environmental pollutants are**

- A. biodegradable
- B. corrosive agents
- C. non-biodegradable chemicals
- D. All of the above

**Answer: C**

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**34.** Non biodegradable pollutants are extremely harmful because they

- A. undergo biomagnification
- B. remain in position for long
- C. do not get recycled

D. both (2) and (3)

**Answer: B**



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**35.** The National Forest Policy of India has recommended \_\_\_ percent forest cover for hilly areas.

A. 67

B. 33

C. 19.4

D. 30

**Answer: A**





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**36.** The Government of India has introduced a concept to work closely with local communities for protection and management of forests called

- A. Jhum cultivation
- B. Chipko movement
- C. Appiko movement
- D. Joint Forest Management

**Answer: D**



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**37.** Earth summit 1992 was held at

A. Rio de Janeiro

B. Stockholm

C. New York

D. Geneva

**Answer: A**



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**38.** A problem with slash and burnt method of agriculture is that it requires :

A. lot of fossil fuel

- B. lot of commercial fertilize
- C. long time for the soil to recover
- D. continual application of pesticide

**Answer: C**

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**39.** Crop rotation helps in

- A. increasing soil fertility
- B. decreasing soil erosion
- C. decreasing soil fertility
- D. decreasing water requirement

**Answer: A**



**Watch Video Solution**

**40.** Deforestation leads to

- A. Soil erosion
- B. Loss of biodiversity
- C. Disturbed hydrological cycle
- D. All these

**Answer: D**



**Watch Video Solution**

**41.** Amrita Devi Bishnoi Award is given to the people who worked on

- A. Global warming
- B. Wildlife Protection
- C. Ozone depletion
- D. Jhum cultivation

**Answer: B**

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**Exercise Ii Introduction**



1. If you have been consulted by rapidly growing city authorities to improve air quality, which is deteriorated in the past ten years, your first suggestion is to

- A. Removal of hydroelectric power station near the city
- B. Move or close the cattle feed lots near the river
- C. Strict usage of leaded petrol
- D. Promotion of mass transport systems

**Answer: D**

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2. BHC is considered as

- A. Biodegradable pollutant
- B. Secondary pollutant
- C. Natural pollutant
- D. Nondegradable pollutant

**Answer: D**

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## Exercise II Air Pollution

1. A colourless, nonirritant, highly toxic gas that impairs respiration is

A.  $SO_2$

B.  $NO_2$

C.  $CO_2$

D. CO

**Answer: D**



**Watch Video Solution**

**2. Residence time of Carbon monoxide is**

A. 65 days

B. 2 to 4 years

C. 4 days

D. 3 days

**Answer: A**



**Watch Video Solution**

**3. Ocean is the largest sink (remover) for**

A. PAN

B.  $NO_2$

C.  $CO_2$

D.  $SO_2$

**Answer: C**



**Watch Video Solution**

4. Effect of pollution is first marked on

- A. microorganisms
- B. green vegetation of an area
- C. food crops
- D. none of these

**Answer: B**



**Watch Video Solution**

5. Bioindicator of  $SO_2$  pollution

- A. *Pseudomonas putida*
- B. Lichens

C. Escherichia coli

D. Corals

**Answer: B**



**Watch Video Solution**

6.  $SO_2$  pollution affects the cell organelle

A. Mitochondria

B. Chloroplasts

C. Golgi bodies

D. Vacuoles

**Answer: B**

 [Watch Video Solution](#)

7. Sulphur dioxide pollution affects

- A. membrane system
- B. cell wall
- C. nucleus
- D. cytoplasm

**Answer: A**

 [Watch Video Solution](#)

8. Corrosion of Taj Mahal is due to the conversion of  $CaCO_3$  into

A.  $CaSO_4$  and  $CaNO_3Ca(OH)_2$

B.  $Ca(OH)_2$

C. CaO

D. All of these

**Answer: A**



**Watch Video Solution**

**9. Pollution responsible for causing phaeophyti-zation is**

A.  $SO_2$

B. Nox

C.  $CO_2$



D. Aeroallergens

**Answer: A**



**Watch Video Solution**

**10.** In addition to  $SO_2$  metals and textiles are also damaged by

- A. nitrogen oxides
- B. fluorides
- C. carbon monoxide
- D. aldehydes

**Answer: A**





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11. Which of the following is reddish brown

A. NO

B.  $NO_2$

C.  $N_2O$

D.  $NH_3$

**Answer: B**



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12. Which green house gas other than methane is being produced by agricultural fields ?

A. ammonia

B. sulphur dioxide

C. nitrous oxide

D. Carbon monoxide

**Answer: C**



**Watch Video Solution**

**13. Pollution caused by iron dust leads to a disease called**

A. black lung

B. asbestosis

C. siderosis

D. byssinosis

**Answer: C**



**Watch Video Solution**

**14.** According to Central Pollution Control Board the permissible ambient noise levels for silent zone during day time is

A. 75 dB

B. 70 dB

C. 40 dB

D. 50 dB

**Answer: D**



**Watch Video Solution**

**15. Which of the following is incorrect ?**

- A. Noise pollution does not leave any residue in the environment
- B. Noise pollution creates nervous disorders
- C. Plants are efficient absorbers of noise of low frequency
- D. Loss of hearing is a common disorder

**Answer: C**



**Watch Video Solution**

16. Acoustic zoning is related with

- A. Soil pollution
- B. Noise pollution
- C. Water pollution
- D. Air pollution

**Answer: B**



**Watch Video Solution**

17. Which is not a natural source of  $CH_4$  in environment ?

A. Biomass burning

B. Termites

C. Gut of ruminants

D. Rice fields

**Answer: A**



**Watch Video Solution**

**18. Which is not an effect of acidic rain in a pond**

A. Increased fungal growth

B. Decreased insect population

C. Increased growth of green algae

D.  $\text{NO}_3^-$  &  $\text{SO}_4^-$  saturation

**Answer: C**

 [Watch Video Solution](#)

19. The smog which is formed at high temperature is

- A. London smog
- B. Classical smog
- C. Los Angeles smog
- D. Sulphurous smog

**Answer: C**

 [Watch Video Solution](#)



20. Brown-air is due to the oxides of

A. Sulphur

B. Nitrogen

C. Carbon

D. Phosphorus

**Answer: B**



[Watch Video Solution](#)

21. Volcanic eruptions let out large quantities of

A. Harmful dust and sulphurous gases

B. Harmful dust and nitrous gases

C. Harmful dust and carbon gases

D. Harmful dust and phosphorous gases

**Answer: C**



**Watch Video Solution**

**22. Acid rain**

(a) Causes necrosis

(b) Convert chlorophyll-a into pheophytin

(c) Responsible for the formation of PAN

A. Only (i) and (ii) are correct

B. Only (ii) and (iii) are correct

C. Only (i) is correct

D. Only (iii) is correct

**Answer: A**



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**23.** Which one of the following pair is not correctly matched ?

A. NEERI-Nagpur

B. Byssinosis-Lung fibrosis due to iron particles

C. Hay fever-Skin allergy and asthma

D. Photochemical smog-Inhibits ETS

**Answer: C**



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**24.** The device normally used to remove gaseous pollutants from polluted air but can remove large particulate matter as well, is

- A. electrostatic precipitator
- B. cyclonic separator
- C. trajectory separator
- D. scrubber

**Answer: D**



**Watch Video Solution**

25. To reduce unburnt hydrocarbon in auto emissions, the device used is

- A. scrubber
- B. catalytic converter
- C. cyclonic separator
- D. trajectory separator

**Answer: B**

 [Watch Video Solution](#)

26. Sulphur dioxide pollution is indicated by

A. Deschampsia (grasses)

B. Sphagnum (mosses)

C. Usnea (lichens)

D. Cucurbits (climbers)

**Answer: C**



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**27. Acid rain causes**

A. destruction of forests

B. gradual killing of lakes

C. killing fish

D. All of the above

**Answer: D**



**Watch Video Solution**

**28.** Green muffer is used against which type of pollution ?

A. air

B. soil

C. water

D. noise

**Answer: D**



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29. Metallic pollutant used as "antiknock agent" in petrol is

- A. Benzopyrene
- B. Tetraethyl lead
- C. Zinc oxide
- D. Aluminum oxide

**Answer: B**

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30. The pH of normal rain water is :

- A. 6.0 to 7.0



B. 6 . 5 to 7 . 5

C. 5 . 6 to 6 . 5

D. less than 5 . 5

**Answer: C**



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**31.** The most hazardous metal pollutant of automobile exhaust is

A. lead

B. cadmium

C. mercury

D. copper

**Answer: A**



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**32.** Plants are known as purifier of air due to the process of

A. respiration

B. photosynthesis

C. transpiration

D. desiccation

**Answer: B**



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**33.** The pollution in a city like Delhi may be controlled to a great extent

- A. by proper sewage and proper exit of chemicals from factories
- B. by wide roads and factories away from the city
- C. by cleaning city and scanty use of pesticides
- D. all the above

**Answer: D**



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**34.** All automobiles in India have met Euro-IV norms by

A. April 1, 2010

B. April 1, 2012

C. May 5, 2014

D. May 5, 2000

**Answer: A**



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## Exercise II Water Pollution

1. Ganga action plan for controlling pollution in ganga started in

A. Japan

B. Dutch

C. British

D. French

**Answer: D**

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2. Biochemical Oxygen Demand (BOD) in a river water

A. Increases when sewage gets mixed with river water

B. Remains unchanged when algal bloom occurs

C. Has no relationship with concentration of oxygen in  
the water

D. Gives a measure of Salmonella in the water

**Answer: A**

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**3. The following are the symptoms of flourosis**

- A. Knock-knee syndrome
- B. Mottling of teeth
- C. Hardening of the joints
- D. all the above

**Answer: D**

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4. Black foot disease is due to ground water contamination of

- A. lead pollution
- B. cadmium pollution
- C. arsenic pollution
- D. copper pollution

**Answer: C**

 [Watch Video Solution](#)

5. Presence of Escherichia coil in water indicates

- A. Water is clear
- B. Water is fully polluted
- C. Inorganic pollution
- D. Faecal pollution

**Answer: D**

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**6. Oil slick causes mass-scale death of fishes due to**

- A. Clogging of gills
- B. Disruption of food chain
- C. Non-availability of food



D. All of these

**Answer: A**

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7. Fluoride pollutions mainly affects : -

A. Brain

B. Heart

C. teeth

D. Kidney

**Answer: C**

 [Watch Video Solution](#)

8. An Indo-Dutch project is associated with

- A. Cleaning of Ganges
- B. Depletion of Ozone
- C. Green House gases
- D. Removal of flourides from drinking water

**Answer: D**



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9. Drinking mineral water/aerated water drink for a long period would result

A. Peptic ulcers

B. Pesticide accumulation in baby

C. Hepatitis

D. Decrease in immunity

**Answer: D**



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10. The maximum legally allowed temperature of the effluent water is

A.  $67^{\circ}C$

B.  $75^{\circ}C$

C.  $50^{\circ}C$

D.  $65^{\circ}\text{C}$

**Answer: A**



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**11.** Oil eating bacteria used to clean-up oil slicks in oceanic waters

- A. Salmonella
- B. Escherichia coil
- C. Pseudomonas putida
- D. Shigella dysenteriae

**Answer: C**





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12. Ecological backlast (ecological bomerang) is

- A. Heat emission due to bomb explosion
- B. Production of useful ecological effect by a previously useful chemical
- C. Formation of secondary pollutant from reaction of primary pollutants
- D. Production of adverse ecological effect by a previously useful chemical

**Answer: D**



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13. Minamata disease is due to pollution of -

- A. Oil spill in water
- B. Arsenic into the atmosphere
- C. Industrial waste having mercury in water
- D. Organic waste into drinking water

**Answer: C**



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14. Painful skeletal deformity called itai-itai is caused due to

- A. Cd

B. Hg

C. CO

D.  $NO_2$

**Answer: A**



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**15.** The limit of BOD prescribed by the Central Pollution Control Board for the discharge of industrial and municipal waste waters into natural surface waters is

A.  $< 10\text{ppm}$

B.  $< 100\text{ppm}$

C.  $< 30\text{ ppm}$

D.  $< 3.0$  ppm

**Answer: A**



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**16.** Which one of the following is not a bioindicator of water pollution?

A. Blood-worms

B. Sludge-worms

C. Sewage fungus

D. Stone flies

**Answer: D**







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## Exercise II Soil Land Pollution

1. Prolonged liberal irrigation of agricultural fields is likely to create the problem of

- A. Acidity
- B. Aridity
- C. Salinity
- D. Metal toxicity

**Answer: C**



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2. Biogas production reduces mainly of the pollution

- A. Air
- B. Water
- C. Noise
- D. Soil

**Answer: D**



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3. Mud-Ball technique is used for

- A. minimizing the thermal pollution
- B. minimizing synthetic fertilizer pollution

C. minimizing the water pollution

D. minimizing the oil pollution

**Answer: B**



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4. Blue-baby syndrome is due to

A. air pollution

B. Heavy metal pollution

C. Thermal pollution

D. Radio-active pollution

**Answer: B**

 [Watch Video Solution](#)

5. Which of the following is an example of negative soil pollution?

- A. Addition of radioactive dust
- B. Addition of herbicides
- C. Deforestation
- D. Automobile exhaust

**Answer: C**

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6. Soil fertility is depleted due to

- A. Sewage pollution
- B. Terracing
- C. Intensive agriculture
- D. Contour bunding

**Answer: C**

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7. Excessive use of fertilizers often leads to the accumulation of nitrates in water. When this water is utilized by animals, these nitrates,

- A. are converted into non-toxic nitrites by intestinal bacteria

B. are converted into toxic nitrites by intestinal bacteria

C. get deposited in the intestine

D. none of the above

**Answer: B**

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**8. Select the incorrect match**

A. Incinerator : Aerobic burning at  $900 - 1200^{\circ} \text{C}$

B. Pyrolysis : Aerobic burning at  $1650^{\circ} \text{C}$

C. Sanitary landfills : Solid waste

D. Polyblend : Recycled modified plastic

**Answer: B**



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9. Pollution from animal excreta and organic waste from kitchen can be most profitably minimized by

- A. storing them in underground storage tanks
- B. using them for producing biogas
- C. vermiculture
- D. using them directly as biofertilizers

**Answer: B**



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## Exercise II Radioactive Pollution

1. As a general rule, ionizing radiation is most damaging to
- A. Mature, stable cells
  - B. Actively dividing cells
  - C. Highly specialized cells
  - D. Cells in which food is stored

**Answer: B**



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2. Which of the following pollutant accumulates in the bones, replaces calcium and may cause bone cancer?



A. Strontium -90

B. CO

C. Nox

D. SPM

**Answer: A**



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**3. The most effective greenhouse gas is**

A. CFCs

B.  $CO_2$

C. Methane

D.  $O_2$

**Answer: B**

 [Watch Video Solution](#)

4. Which is not an effect of global warming?

A. More extreme weather conditions

B. Poleward shifting of organism

C. Rise of sea level

D. Good fungal growth in soil

**Answer: D**

 [Watch Video Solution](#)

5. Maximum green house gas released by which country : -

A. India

B. France

C. USA

D. Britain

**Answer: C**



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6. World environment day coincides with commemoration of

A. Montreal protocol

B. Vienna convention

C. First United Nations Conference on Human Environment

D. Helsinki declaration

**Answer: C**



**Watch Video Solution**

7. World environment day is on

A. 11 th july

B. 31 st May

C. 5th June

D. 7th April

**Answer: C**



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**8.** Consider the following statements and select correct set w.r.t. global warming

- (a) El Nino effect
- (b) Cooling of stratosphere and earth surface
- (c) Shifting of climatic zones
- (d) Snow blindness
- (e) Impairment of hearing
- (f) Excessive deposition of ice at poles

(g) Rise in sea level

(h) Increase in eutrophication

A. a, c, g, & h

B. a, c, d, e, f, & g

C. a, b, c, d, f, & h

D. a, b, c, & g

**Answer: A**



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### 9. Match the Column-I with Column-II

Column-I

Column-II

a) Pyrolysis

i) Methemoglobinemia

b) Carbon monoxide

ii) Arsenic

c) Blue baby

iii) Asphyxia

d) Black foot disease

iv) Disposal of hospital waste

A. a-(iv), b-(i), c-(ii), d-(iii)

B. a-(i), b-(iii), c-(iv), d-(ii)

C. a-(iv), b-(iii), c-(i), d-(ii)

D. a-(iv), b-(iii), c-(ii), d-(i)

**Answer: C**



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10. The thinning of the ozone layer is believed to have begun in

A. 1890

B. 1953

C. 1975

D. 1981

**Answer: C**



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11. Melanin protect from :-

A. X-rays



B. Infra red rays

C. PAR

D. UV rays

**Answer: D**



**Watch Video Solution**

**12. Natural sink of stratospheric ozone is**

A. Sulfur dioxide

B. Sulfur fluxes of ocean

C. Freons

D. HCFCs

**Answer: C**



**Watch Video Solution**

**13. Carcks develop in rubber goods due to**

A. Ozone

B. PAN

C. Aerosols

D. Mist

**Answer: A**



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14. The peak level of ozone is present at about

- A. 70 km latitude
- B. 100 km latitude
- C. 50 km latitude
- D. 30 km latitude

**Answer: D**



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15. Ozone is spread in the swimming pool because it:

- A. To absorb UV radiations
- B. Ozone is easily available from  $O_2$

C. It acts as disinfectant

D. All of these

**Answer: C**



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**16. World Ozone Day is celebrated on**

A. April 25

B. September 16

C. Januar 15

D. December 16

**Answer: B**

17. Ozone hole is

- A. Partial gap in stratospheric ozone layer over Antarctica
- B. Partial gap in stratospheric ozone layer over Arctic pole
- C. Thinning of ozone layer over polar regions
- D. Excessive buildup of lower troposphere ozone

**Answer: C**

18. The first biocide used on a large scale was

A. DDT

B. BHC

C. mercury

D. Methane

**Answer: A**



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**19. Match the following**

Pollutant	Removed by
A) $CO_2$	1) Catalytic converter
B) Particulate matter	2) Scrubber
C) CO	3) Afforestation
D) $SO_2$	4) Incinerator
	5) Electrostatic precipitator

A. A-2, B-3, C-5, D-1

B. A-4, B-1, C-5, D-3

C. A-3, B-5, C-1, D-2

D. A-5, B-4, C-2, D-1

**Answer: C**



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## Exercise Iii Previous Aipmt Neet Questions

1. Which of the following in sewage treatment removes suspended solids?

- A. tertiary treatment
- B. secondary treatment
- C. primary treatment
- D. sludge treatment

**Answer: C**



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2. Which one of the following statements is not valid for aerosols

- A. they are harmful to human health
- B. they alter rain fall and monsoon patterns
- C. they cause increased agricultural productivity
- D. they have negative impact on agricultural land

**Answer: C**



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3. A genetically engineered bacterium first used for cleaning the oil spills, was a species of

A. Escherichia

B. Pseudomonus

C. Bacillus

D. Rhizobium

**Answer: B**



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**4. Air pollution can result in Emphysema, which is :**

A. Chronic damage to air sacs or alveoli leading to abnormal reduction in respiratory surface area

- B. Peristant inflammation and damage to the cells liming the bronchi and bronchioles
- C. an allergic reaction causing muscle spasms in the bronchial walls
- D. Damage to any Lung tissue causing increase in elasticity of the air sacs

**Answer: A**



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5. Joint Forest Management Concept was introduced in India during

A. 1980s

B. 1990s

C. 1960s

D. 1970s

**Answer: A**



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**6.** The UN Conference of Parties on Climate Change in the year 2011 was held in

A. Peru

B. Qatar

C. Poland

D. South Africa

**Answer: D**



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7. A river with an inflow of domestic sewage rich in organic waste may result in

- A. An increased production of fish due to biodegradable nutrients
- B. Death of fish due to lack of oxygen
- C. Drying of the river very soon due to algal bloom
- D. Increased population of aquatic food web organisms

**Answer: B**



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8. Which of the following is not one of the prime health risk associated with greater UV radiation through the atmosphere due to depletion of stratospheric ozone ?

- A. Damage to eyes
- B. Increased liver cancer
- C. Increased skin cancer
- D. Reduced immune system

**Answer: B**



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9. High BOD indicates

A. water is less polluted

B. consumption of organic matter in the water is higher  
by the microbes

C. water is pure

D. water is highly polluted

**Answer: B**



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10. Rachel Carson's famous book "Silent Spring" is related to

A. Population explosion

B. Ecosystem Management

C. Pesticide pollution

D. Noise pollution

**Answer: C**

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**11.** The zone of atmosphere in which the ozone layer is present is called

A. ionosphere

B. mesosphere

C. stratosphere

D. troposphere



**Answer: C**



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**12.** A scrubber in the exhaust of a chemical industrial plant removes

- A. gases like sulphur dioxide
- B. particulate matter of the size 5 micrometer or above
- C. gases like ozone and methane
- D. particulate matter of the size 2.5 micrometer or less

**Answer: A**



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13. Kyoto Protocol was endorsed at

A. CoP-3

B. CoP-5

C. CoP-6

D. CoP-4

**Answer: A**



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14. A location with luxuriant growth of lichens on the trees indicates that the

A. trees are very healthy

B. trees are heavily infested

C. location is highly polluted

D. location is not polluted

**Answer: C**



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**15.** The Air Prevention and Control of Pollution Act came into force in

A. 1975

B. 1981

C. 1985

D. 1990

**Answer: B**



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**16.** Global warming can be controlled by

A. reducing deforestation, cutting down use of fossil fuel

B. reducing reforestation, increasing the use of fossil fuel

C. increasing deforestation, slowing down the growth of human pollution

D. increasing deforestation, reducing efficiency of energy usage

**Answer: A**



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17. In an area where DDT had been used extensively the population of birds declined significantly because

- A. birds stopped laying eggs
- B. earthworms in the area got eradicated
- C. cobras were feeding exclusively on birds
- D. many of the birds laid eggs that did not hatch

**Answer: D**



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**18.** Which one of the following is a wrong statement

- A. Most of the forests have been lost in tropical areas
- B. Ozone in upper part of atmosphere is harmful to animals
- C. Greenhouse effect is a natural phenomenon
- D. Eutrophication is a natural phenomenon in freshwater bodies

**Answer: B**



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19. Which one of the following pairs of gases are the major cause of "Greenhouse effect" ?

A.  $CO_2$  and  $CO$

B.  $CFCs$  and  $SO_2$

C.  $CO_2$  and  $NO_2$

D.  $CO_2$  and  $O_3$

**Answer: C**



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20. Which one of the following statements is wrong in case of Bhopal Tragedy ?

- A. Methyl Isocyanate gas leakage took place
- B. Thousands to human beings died
- C. Radioactive fall out engulfed Bhopal
- D. It took place in the night of December 2/3 1984

**Answer: C**



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**21. Eutrophication is often seen in**

- A. freshwater lakes
- B. ocean
- C. monutains



D. deserts

**Answer: A**



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**22. Secondary sewage treatment is mainly a:**

- A. physical process
- B. mechanical process
- C. chemical process
- D. biological process

**Answer: D**



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23. "Good ozone" is found in the

A. mesosphere

B. troposphere

C. stratosphere

D. ionosphere

**Answer: C**



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24. Which of the following is mainly produced by the activity of anaerobic bacteria on sewage

A. Laughing gas

B. Propane

C. Mustard gas

D. Marsh gas

**Answer: D**

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**25.** dB is a standard abbreviation used for the quantitative expression of

A. the density of bacteria in a medium

B. a particular pollutant

C. the dominant Bacillus in a culture

D. a certain pesticide

**Answer: B**

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**26.** A renewable exhaustible natural resource is

A. coal

B. petroleum

C. minerals

D. forest

**Answer: D**

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27. Stirred - tank bioreactors have been designed for

- A. addition of preservatives to the product
- B. purification of the product
- C. ensuring anaerobic conditions in the culture vessel
- D. availability of oxygen throughout the process

**Answer: D**



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28. Steps taken by the Government of India to control air pollution include

A. compulsory PUG (Pollution Under Control)

certification of petrol driven vehicles which tests for carbon monoxide and hydrocarbons

B. permission to use only pure diesel with a maximum of

500 ppm sulphur as fuel for Vehicles

C. use of non-polluting compressed natural gas (CNG)

only as fuel by all buses and trucks

D. compulsory mixing of 20% ethyl alcohol with petrol

and 20% biodiesel with diesel

**Answer: A**



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29. Montreal Protocol aims at:

- A. Biodiversity conservation
- B. Control of water pollution
- C. Control of  $CO_2$  emission
- D. Reduction of ozone depleting substances

**Answer: D**

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30. Biochemical Oxygen Demand (BOD) in a river water

- A. has no relationship with concentration of oxygen in the water

B. gives a measure of Salmonella in the water

C. increases when sewage gets mixed with river water

D. remains unchanged when algal bloom occurs

**Answer: C**



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**31.** Chipko movement was launched for the protection of

A. forests

B. livestock

C. wet lands

D. grasslands



**Answer: A**



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**32.** DDT residues are rapidly passed through food chain causing biomagnification because DDT is

- A. moderately toxic
- B. non-toxic to aquatic animals
- C. water soluble
- D. lipid soluble

**Answer: D**



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**33.** Which of the following plant species you would select for the production of bioethanol ?

A. Zeamays

B. Pongamia

C. Jatropha

D. Brassica

**Answer: C**

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**34.** Global agreement in specific control strategies to reduce the release of ozone depleting substances, was adopted by

- A. The Montreal protocol
- B. The Kyoto protocol
- C. The Vienna Convention
- D. Rio de Janeiro Conference

**Answer: A**



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**35. World Summit on Sustainable Development, 2002 was held in**

- (a) Rio de Janeiro, Brazil
- (b) Johannesburg, South Africa
- (c) Dehradun, India
- (d) New York, U.S.A.

A. Brazil

B. Sweden

C. Argentina

D. South Africa

**Answer: D**



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**36.** Which of the following is the correct percentage of the two (out of the total of 4) greenhouse gases that contribute to the total global warming?

A. CFCs 14%, Methane 20%

B.  $CO_2$ , 40 % , CFCs30 %

C.  $N_2O$  6% ,  $CO_2$  86%

D. Methane 20%,  $N_2O$  18%

**Answer: A**



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**37.** Which one of the following is being tried in india as a bio fuel substitue for fossil fuels ?

A. Jatropha

B. Azadirachta

C. Musa

D. Aegilops

**Answer: B**



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**38.** Which size of particulate matter is considered to be most harmful for human health ?

A. 2.5 or less

B. 1.5 or less

C. 1.0 or less

D. 5.2-2.5

**Answer: A**



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**39.** Which one of the following is not a bioindicator of water pollution?

- A. Blood-worms
- B. Stone flies
- C. Sewage fungus
- D. Sludge-worms

**Answer: B**

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**40.** In a coal-fired power plant, electrostatic precipitators are installed to control the emission of

A.  $NO_x$

B. SPM

C. CO

D.  $SO_2$

**Answer: B**

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**41.** In which one of the following, the BOD (Biochemical Oxygen Demand) of sewage (S), distillery effluent (DE), paper mill effluent (PE) and sugar mill effluent (SE) have been arranged in ascending order ?

A.  $SE < PE < S < DE$



B.  $PE < S < SE < DE$

C.  $S < DE < PE < SE$

D.  $SE < S < PE < DE$

**Answer: B**



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