



## **BIOLOGY**

**BOOKS - MBD** 

## **ENVIRONMENT ISSUES**

Example

1. Define pollution.



2. What are air pollutants? Write any five major air pollutants. What are ill-effects of these pollutants?



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3. What are the three major types of pollution?



**4.** Classify pollution on the basis of origin.



**5.** Give example of natural pollution



**6.** Give example of anthropogenic pollution.

**7.** Classify pollution according to physical nature of pollution?



**8.** Which term is used for the Pollutants which are degraded by Natural means?



**9.** Name the act passes by Government of India to control environmental pollution.



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10. List two effects of pollutants on plants.



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**11.** Name the biggest source of air pollution in large cities.



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**12.** Name the method to remove gases like sulphur dioxide from the exhaust.



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**13.** What type of particles (particulate matter) are responsible for causing the greatest harm to human health?



**14.** Name any two metals used in the catalytic converters of automobiles.



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**15.** Why should only unleaded petrol be used in the automobiles with catalytic converter?



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**16.** What do the Euro II norms stipulate?



17. What is smog?



**18.** Name the most widely used method to remove particulate matter.



**19.** What is the frequency of infra-sound and ultrasound?



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**20.** List some ill effects of noise pollution.



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**21.** List sources of noise pollution in your surroundings.



22. Name the unit to measure noise pollution.



**23.** Give the noise value of moderate conversation.



**24.** Claasify sources of water pollution on the basis of origin?



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25. Give example of non-point sources.



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**26.** Give example of biological pollutants of water?



27. What are physical pollutants of water?



**Watch Video Solution** 

**28.** Name the most serious water pollutants.



**29.** What are the main causes of thermal pollution?



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**30.** What is the effect of thermal pollution?



**Watch Video Solution** 

**31.** Give the term for the increase in the amount of a toxic substance in successive

trophic levels of a food chain. **Watch Video Solution** 32. What is meant by electronic wastes (ewastes)? **Watch Video Solution** 33. What is meant by integrated organic



farming?

**34.** What are the two very serious inherent problems of use of nuclear energy?



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**35.** How is the storage of nuclear wastes recommended?



**36.** How much of forest area has decreased in India from the beginning of 20th century to the end of 20th century?



**Watch Video Solution** 

**37.** What is the other name given to Jhum cultivation?



38. What is reforestation?



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**39.** What is Amrita Devi Bishnoi Wildlife Protection award given to?



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**40.** What is the main idea behind "Joint farm management concept" introduced by

Government of India?



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**41.** Where did the Chipko movement start? What are Dobson units?



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**42.** What are various constituents of domestic sewage? Discuss the effects of sewage discharge on a river.



43. diseases caused by pollutant water.



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**44.** List all the wastes that you generate, at home, school or during your trip to other places.



**45.** What do you mean by Global warming? What are the ill effects of global warming? What measures shold be taken to control Global warming?



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**46.** Match the items in Column A and column

B:

	Column A		Column B
(1)	Catalytic converter	(a)	Particulate matter
(ii)	Electrostatic	(b)	CO and Nitrogen
	precipitator		oxides
iii)	Earmuffs	(c)	High level noise
iv)	Land fills	(d)	Solid waste.



**47.** Define: Eutrophication



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48. Explain: Biological magnification



**49.** Write critical notes on the following: Groundwater depletion and ways for its replenishment



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**50.** Why does ozone hole form over Antarctica? How will enhanced UV-radiations affect humans?



**51.** Discuss the role of women and communities in protection and conservation of forests.



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**52.** Discuss briefly the following:

Radioactive wastes



**53.** Discuss briefly the following: Defunct ships and e-wastes



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**54.** Discuss briefly the following: Municipal solid wastes



**55.** Explain any three measures which will control vehicular air pollution in Indian cities.



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**56.** Discuss briefly the following: Greenhouse gases



**57.** Discuss briefly the following:

Catalytic converter



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58. Discuss briefly the following: Ultraviolet B



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**59.** Use of lead-free petrol or diesel is recommended to reduce the pollutants

emitted by the automobiles. What role does lead play?



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**60.** In which year was the Air prevention and Control of Pollution Act amended to include noise as air pollutant?



**61.** Name the city in our country where the entire public road transport runs on CNG.



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**62.** It is common pratice to undertake desilting of overhead water tanks. What is possible source of silt that gets deposited in the water tanks?



**63.** What is eutrophication? Differentiate between natural and accelerated eutrophication.



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**64.** List any two adverse effects of particulate matter on human health.



**65.** What is the raw material for polyblend?



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**66.** Blends of polyblend and bitumen, when used, help to increase road life by a factor of three. What is the reason?



**67.** Mention any two examples of plants used as wind breakers in the agricultural fields.



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**68.** Name an industry which can cause both air and thermal pollution as well as eutrophication.



**69.** What do you mean by algal bloom?



**70.** What do you understand by biomagnification?



**71.** What are the three major kinds of impurities in domestic waste water?



72. What is reforestation?



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73. What is the best solution for the treatment of electronic wastes?



**74.** It is true that carpets and curtains/drapes placed on the floor or wall surfaces can reduce noise level. Explain briefly?



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**75.** What is hybird vehicle technology? Explain its advantages with a suitable example?



**76.** Is it true that if the dissolved oxygen level drops to zero the water will become septic? Given example which could lower the dissolved oxygen content of an aquatic body.



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**77.** Name any one of the green house gases and its possible source of production on a large scale. What are the harmful effect of it?



**78.** It is a common pratice to plant tree and shrubs near the boundary walls of building. What purpose do they serve?



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**79.** Why has National Forest Commission of India recommended a relatively larger forest cover for hills than the plains?



**80.** How can slash and burn agriculture become environment friendly?



**Watch Video Solution** 

**81.** What is the main idea behind "Joint farm management concept" introduced by Government of India?



**82.** What do you understand by snow blindness?



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**83.** How has DDT caused decline in bird population?



**84.** Write a short note on electrolytic refining of copper.



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**85.** What is organic farming? Discuss the benefits of organic farming as a viable practise in the context of developing nations like India.



**86.** Water logging and soil salinity are some of the roblems that have come in the wake of the green revolution. Discuss their causes and adverse effects to the environment.



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**87.** What are taxonomical aids? Give the importance of herbaria and museums. How are Botanical gardens and zoological parks useful in conserving biodiversity?



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**88.** What are the basic characteristic of a modern landfill site. List any three and also mention the reasons for their use.



**89.** How does an electrostatic precipitator work to remove particulate pollutants released from Thermal Plants.



**90.** Non-biodegradable pollutants are created by:

A. nature

B. excessive use of resources

C. humans

D. natural disasters.

### **Answer:**



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

- A. 2.50 micrometres
- B. 5.00 micrometres
- C. 10.00 micrometres
- D. 7.5 micrometres

**Answer:** 

**92.** The material generally used for sound proofing of rooms like a ecording studio and auditorium, etc.

A. cotton

B. coir

C. wood

D. styro foam

**Answer:** 

# 93. Compressed Natural Gas (CNG) is:

A. propane

B. methane

C. ethane

D. butane

### **Answer:**



## 94. World's most problematic aquatic weed is:

- A. Azolla
- B. Wolffia
- C. Eichhornia
- D. Trapa

#### **Answer:**



**95.** Which of the following causes biomagnification?

- A.  $SO_2$
- B. Mercury
- C. DDT
- D. Both B & C

### **Answer:**



- **96.** The expanded form of DDT is
  - A. dichloro diphenyl trichloroethane
  - B. dictloro diethyl trichoroethane
  - C. dichloro dipyryl trichloroethane
  - D. dichloro diphenyl tetrachoroacetate



**97.** which of the following material takes the longest time for biodegradation?

- A. Cotton
- B. Paper
- C. Bone
- D. Jute

### **Answer:**



- **98.** Choose the incorrect statement.
  - A. The Montral protocol is assciated with
    the control of emission of ozone
    depleting substances
  - B. Methane and carbon dioxide are greenhouse gases
  - C. Dobson units are used to measure oxygen content
  - D. Use of incinerators is crucial to disposal of hospital wastes.



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**99.** which of the following is true in respect of chemical adosrption ?

- A. burning coal
- B. burning cooking gas
- C. buring mosquito coil
- D. Room spray



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**100.** The green scum seen in the fresh water bodies is:

- A. blue green algae
- B. red algae
- C. green algae
- D. Both A and C



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

- A. 150 dB
- B. 215 dB
- C. 30 dB
- D. 80 dB



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**102.** The major source of noise pollution world wide is due to :

- A. office equipment
- B. transport system
- C. sugar, textile and paper industries
- D. oil refineries and thermal power plants



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

i. Environment Protection Act	a. 1974
ii. Air Prevention & Control of	b. 1987
Pollution Act	
iii. Water Act	c. 1986
iv. Amendment of Air Act to include	d. 1981
noise	
The correct matches is :	

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:**



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**104.** Catalytic converters are fitted into automobiles to reduce emission of harmful gases. Catalytic converters change unburnthydrocarbons into:

- A. carbon dioxide and water
- B. carbonmonooxide
- C. methane
- D. carbon dioxide and methane



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

A. To reduce the emission of sulphur dioxide in exhaust fumes

B. To increase efficiency of automoblies engines

C. To use sulphur removed from petroleum for commercial purposes

D. To increase the life span of engine silences

### **Answer:**



**106.** Which one of the following impurities is easiest to remove from waste water?

- A. Bacteria
- **B.** Colloids
- C. Dissolved solids
- D. Suspended solids

### **Answer:**



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

- A. Hepatits-B
- B. Jaundice
- C. Cholera
- D. Typhoid

### **Answer:**



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

- A. carbon
- B. sulphur
- C. calcium
- D. phosphorus

### **Answer:**



109. 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. Methy Cyanate

**Answer:** 

**110.** Match the items of column I with column II and select the correct option.

	Column-I	Column-II
(a)	Electrostatic	1. Removes gases like
	precipitator	SO <sub>2</sub>
(b)	Scrubber	Reduces automobile     emission
(c)	Catalytic	3. Removes particulate matter

A. a-2, b-3, c-1

B. a-3, b-2, c-1

C. a-1, b-2, c-3

D. a-3, b-1, c-2

### **Answer:**



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**111.** What are the factors on which harmful effects of pollutants depend?



**112.** Why are tall chimneys recommended for factories?



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**113.** Which toxic element is present in the exhaust of automobiles?



**114.** What are secondary pollutants? Give two examples.



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**115.** Name any two metals used in the catalytic converters of automobiles.



**116.** How do catalyst function in the removal of pollutants from auto-mobile exhaust?



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117. Why is CNG better than diesel?



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**118.** What is the effect of repeated exposure to background radiation?



**119.** Name the layer of atmosphere that is associated with 'good ozone'.



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**120.** What is Biotic index?



**121.** What would be the impact on the environment around a thermal power plant if its electrostatic precipitator stops functioning? Give a reason.



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**122.** Write the name of plant that is referred to as the teror of bengal.



**123.** State the cause of Accelerated Eutrophication.



**Watch Video Solution** 

124. Write main kinds of pollutants.



**Watch Video Solution** 

125. Mention the names of air pollutants



**126.** What are the effects of carbon monoxide?



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**127.** Chlorofluorocarbons (CFCs) are widely used as refrigerants. Then why it is suggested to reduce its emission as far as possible?



**128.** How does an electrostatic precipitator work?



**Watch Video Solution** 

**129.** How does an electrostatic precipitator work to remove particulate pollutants released from Thermal Plants.



**130.** How does a scrubber function?



**Watch Video Solution** 

**131.** What is photochemical smog?



**Watch Video Solution** 

132. What is acid rain? What are its effects on plants?



**133.** Write the effects of hydrocarbons(HCs).



**Watch Video Solution** 

**134.** What are aerosaols? Write the sources and effects.



**135.** How does algal bloom destroy the quality of fresh water body? Explain.



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136. Briefly explain noise pollution.



**Watch Video Solution** 

**137.** List various measures for control of noise pollution.



**138.** Make a table showing permissible ambient noise level.



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**139.** Explain water pollution due to surface run off from land.



**140.** Write a short note on water pollution caused due to oil.



**Watch Video Solution** 

141. List some ill effects of water pollution.



**Watch Video Solution** 

**142.** Explain the effect on the characteristics of a river when urban sewage is discharged into

it.



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143. What is the difference between biological oxygen demand and chemical oxygen demand? What is the effect of a higher biological oxygen demand on the level of dissolved oxygen and sensitive organisms in a water body?



**144.** What is soil pollution?



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**145.** List the consequences of deforestation.



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**146.** List four laws which enforce control of pollution.



147. What is the difference between biological oxygen demand and chemical oxygen demand? What is the effect of a higher biological oxygen demand on the level of dissolved oxygen and sensitive organisms in a water body?



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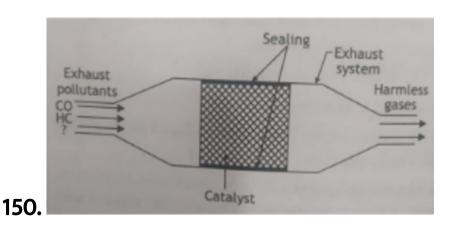
**148.** Write a note on Biological Oxygen Demand (BOD).



149. Write the main cause of global warming.



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Observe the diagram of the catalytic converter and answer the questions which follow:

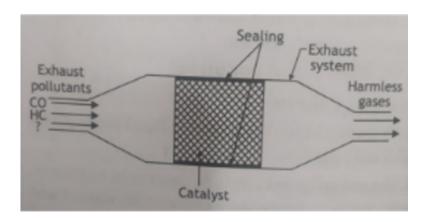
name any two metals used as catalyst in the catalytic converter.



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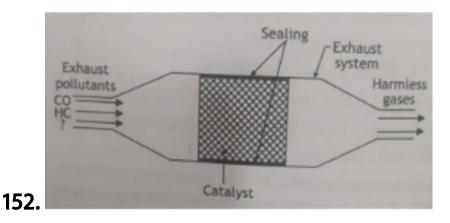
**151.** Observe the diagram of the catalytic converter and answer the questions which follow:

Name the gases that are released after passing the exhaust hydrocarbons through





# **Watch Video Solution**



Observe the diagram of the catalytic converter

and answer the questions which follow:

Name the other poisonous gas which is missing in the exhaust pollutsnt of an automobile in the above diagram.



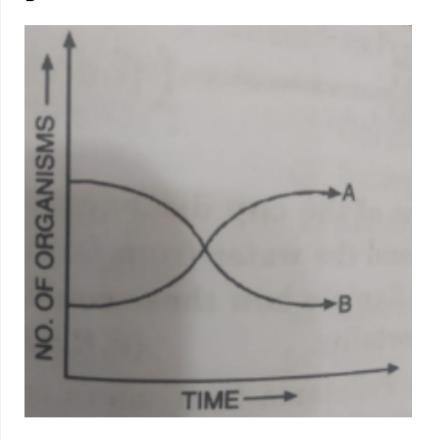
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**153.** The graph given alongside represents the growth patterns of two types of aquatic organisms over a brief period of time in a water body surrounded by an agricultural land extensively suppied with fertilisers. Identify

the organisms that would represent

A and

В





154. Write the difference between IRV and ERV.



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155. Write the main cause of global warming.



**Watch Video Solution** 

**156.** What is air pollution? Write the preventive measures for air pollution.



**157.** Why is ozone layer in stratosphere called a protective layer?



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**158.** Show the effects of man made chemicals on the ozone layer in the stratosphere.



**159.** Why industrial effluents are more difficult to manage t5han municipal sewage? Nmae a disease that is caused by heavy metal contamination.



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**160.** A factory drain its waste water into the nearby lake causing algal bloom.

How was the algal bloom caused?



**161.** A factory drain its waste water into the nearby lake causing algal bloom.

What would be the consequences?



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**162.** A factory drain its waste water into the nearby lake causing algal bloom.

Name the phenomenon that caused it.



**163.** How have human activities caused desertification? Explain.



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164. While studying pollution of water, a group of students observed mortality of fish in the river flowing through the city and also in the pond which was away from the city but was adjacent to the crop fields. They further found that drains of the city discharged sewage into

the river and the water from farms flowed into the pond. Explain how these could be the cause of fish mortality.



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**165.** How does addition of small amount of curd to fresh milk,help formation of curd?

Mention a nutritional quality that get added to the curd.



**1.** Algal blooms impart a distinct colour to water due to :

A. their pigments

B. excretion of coloured substances

C. formation of coloured chemicals in

water facilitated by physiological

degradation of algae.

D. absorption of ligh by algal cell wall

### **Answer:**



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2. Name an industry which can cause both air and thermal pollution as well as eutrophication.



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**3.** What is hybird vehicle technology? Explain its advantages?



**4.** How can slash and burn agriculture become environment friendly?



**5.** How has DDT caused decline in bird population?



**6.** What are e-wastes? Name any two e-wastes .

What is best solution for treatment of ewastes?



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**7.** Make a list of impurities present in domestic sewage.



8. Explain algal bloom.



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9. Expalin: Radioactive waste



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10. Why ozone hole forms over Antarctica?

How will enhanced UV radiations affect us?



**11.** What is organic farming? Discuss the benefits



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**12.** Discuss the causes and effects of water pollution. What measures need to be taken to control?



**13.** When huge amount of sewage is dumped into a river, the BOD will:

- A. increase
- B. remain unchanged
- C. slightly decrease
- D. decrease

#### **Answer:**



**14.** "mango necrosis" is due to:

A.  $CO_2$ 

B. CO

C. Boron

D.  $SO_2$ 

## **Answer:**



**15.** Minamata disease of Japan which afficted people with paralysis was traced to:

- A. Algae contaminated with Arsenic
- B. Fish contaminated with Hg
- C. Fruits contaminated with Nickle
- D. Rice contaminated with biofertilizer

#### **Answer:**



**16.** What is standing state? Coin the term for vertical distribution of vegetation in a forest.



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**17.** List the attributes that populations but not individuals possess.



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**18.** Differentiate between hibernation and aestivation.



**19.** What are differences between primary succession and secondary succession?



**20.** What is the difference between BOD & COD?



**21.** What is noise pollution? Explain the effects of noise pollution?



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22. Discuss briefly the following: Ultraviolet B



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**23.** What is Ozone hole? Why does Ozone hole formed over Antartica? How will enhanced UV

radiations affect us?



**24.** What are the causes of loss of biodiversity?



**25.** Differentiate primary productivity and secondary productivity.



**26.** Differentiate in situ and ex-situ conservation.

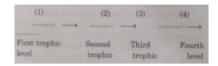


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**27.** What are major causes of species losses in a geographical area ?



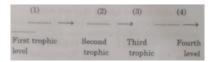
**28.** A diagrammatic representation of different trophic levels in an ecosystem is given below



Give the ecological terms in place of 1,2,3 and 4.



**29.** A diagrammatic representation of different trophic levels in an ecosystem is given below

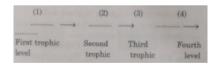


Give example of the organism for each trophic level either from aquatic or terrestrial ecosystem.



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**30.** A diagrammatic representation of different trophic levels in an ecosystem is given below



What is the difference between a food chain and food web? Which one is more stable?



**31.** What is eutrophication? Differentiate between natural and accelerated eutrophication.



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32. When and where was Earth Summit held?



**33.** What is Kyoto protocol?



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**34.** Name the biggest source of air pollution in large cities.



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35. Explain: Biological magnification



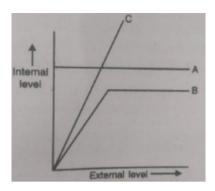
**36.** List the uses of biodiversity.



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**37.** What do A, B and C represent in this graph with respect to organismic respone for homeostasis? To which categories do the birds

and plants belong?





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**38.** Differentiate between El-nino and La-nina effect.



**39.** "To reduce or check the global warming is the biggest challenge. Scientists belive that rise in temperature is leading to deletrious changes in environment and resulting in odd climates."

Name agents which causes global warming.



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**40.** "To reduce or check the global warming is the biggest challenge. Scientists belive that

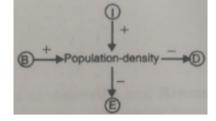
rise in temperature is leading to deletrious changes in environment and resulting in odd climates."

How will you educate the people in your locality to actively involve in reducing emission of such substances which cause global warming?



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**41.** Four basic processes produce fluctuations in population density

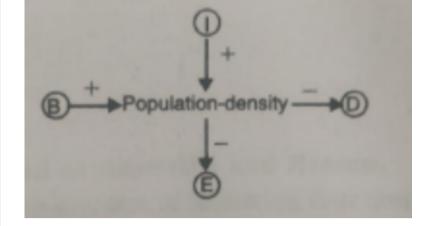


Which terms are represented by B, D, I, E?



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**42.** Four basic processes produce fluctuations in population density

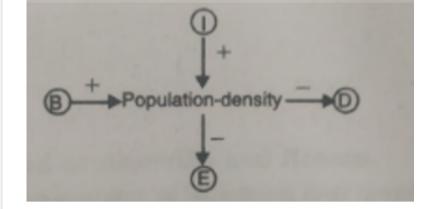


Define the terms B and E.



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**43.** Four basic processes produce fluctuations in population density. define I and D





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**44.** Discuss the causes and effects of water pollution. What measures need to be taken to control?



45. What is reforestation?



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46. List the consequences of deforestation.



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**47.** What is pollution? Differentiate between primary air pollutants and secondary air pollutants.



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**48.** What is photochemical smog?

