



BIOLOGY

BOOKS - BETOPPERS

POLLUTION OF AIR AND WATER

Worksheet 1

1. Which of the following sources of energy causes environmental pollution?

A. Hydal energy

B. Solar energy

C. Wind power

D. Fossil fuels

Answer: D



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2. Atmosphere does not get polluted by

A. mining

B. farming

C. transportation

D. manufacturing

Answer: B



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3. The oxides of which of the following pairs of elements cause acid rain?

A. Sulphur and nitrogen

B. Sodium and nitrogen

C. Magnesium and sulphur

D. Carbon and phosphorus

Answer: A



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4. The ozone layer protects us from the harmful ultraviolet rays from the Sun. Which of the following air pollutants is destroying the ozone layer?

- A. Carbon monoxide
- B. Oxides of sulphur
- C. Oxides of nitrogen
- D. Chlorofluorocarbons

Answer: D



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5. Chlorofluorocarbons (CFCs) are substances that pollute the air. These are produced from man-made devices. The use of which of the

following commodities does not produce CFCs?

- A. Petroleum
- B. Refrigerators
- C. Aerosol sprays
- D. Air conditioners

Answer: A



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6. Which of the following air pollutants is produced from the incomplete burning of vehicle fuels?

A. Carbon monoxide

B. Carbon dioxide

C. Sulphur trioxide

D. Sulphur dioxide

Answer: A



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7. The discharge of excessive chemicals from industries, households, etc., into ponds is responsible for which of the following effects?

A. It makes the pond water toxic for algae

B. It increases the level of oxygen in the pond

C. It reduces the temperature of water in the pond

D. It decreases the population of aquatic organisms

Answer: D



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8. Air pollutants cause serious damage to health.

Which gas is paired correctly with the disease caused by it?

(A) Smog-Asthma (B) CO- Lung damage (C)

SO_2 -Skin disease

A. Smog-Asthma

B. CO-Lung damage

C. SO_2 - Skin disease

D. Chlorofluorocarbons - Reduce the oxygen carrying capacity of blood.

Answer: A



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9. In a city, a thermal power plant produces a large amount of smoke while generating electricity. Which of the following problems is

not a result of the smoke released by the factory?

A. Smog

B. Acid rain

C. Air borne diseases

D. Breathing disorders

Answer: C



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10. The burning of fossil fuels such as coal and petroleum leads to an increase in the concentration of sulfur dioxide in atmosphere. This sulfur dioxide changes into sulfuric acid in the atmosphere, causing acid rains. Which of the following effects is not a consequence of acid rains?

- A. Damage to buildings and monuments
- B. Increase in the temperature of Earth
- C. Reduction in the growth of trees

D. Reduction of marine population

Answer: B



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11. The burning of fossil fuels does not lead to

A. smog

B. acid rain

C. snowfall

D. air pollution

Answer: C



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12. Consider the following statements regarding the case study of Taj Mahal. I. Corroding of the marble of the monument is caused by carbon dioxide and sulphur dioxide. II. Suspended soot particles emitted by Mathura oil refinery cause the yellowing of the marble. III. One of the steps to save the Taj is to

use CNG and LPG in the automobiles in the Taj zone. Among the given statements,

- A. only I is correct
- B. only III is correct
- C. I and II are correct
- D. II and III are correct

Answer: D



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13. Chlorofluorocarbon (CFC) is another kind of pollutant that causes damage to the environment. Which of the following statements is correct regarding the environmental problem caused by CFCs?

- A. It causes acid rain.
- B. It reduces the visibility.
- C. It causes global warming.
- D. It damages the ozone layer.

Answer: D



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14. Taj mahal is one of the Seven Wonders of the world. It is situated on the banks of river Yamuna. Environmantal pollution has damaged the marble of the monument. The Taj Mahal is threatened by which type of pollution?

A. Air

B. Soil

C. Water

D. Noise

Answer: A



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Worksheet 2

1. Fossil fuels such as coal and petroleum are found deep inside Earth's surface. They are extracted from Earth by mining. Mining does not result in

A. soil erosion

B. global warming

C. the lowering of water table

D. the contamination of water

Answer: B



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2. Which of the following human activities does not contribute to global warming?

A. Deforestation

B. Transportation

C. Communication

D. Industrialization.

Answer: C



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3. Human activities contribute to global warming by increasing the concentration of carbon dioxide,

- A. CH_4 , and O_3 , in atmosphere
- B. CH_4 , and SO_2 , in atmosphere
- C. NO_2 , and methane in atmosphere
- D. SO_2 , and NO_2 , in atmosphere

Answer: A



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4. Which of the following human activities results in global warming?

A. Fishing

B. Mining

C. Cultivation

D. Afforestation

Answer: B



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5. Rapid deforestation results in i in the amount of ii released into the atmosphere,

which contributes significantly to global warming.

A. i- an increase, ii-nitrogen

B. i-a decrease, ii-nitrogen

C. i-an increase, ii-carbon dioxide

D. i- a decrease, ii- carbon dioxide

Answer: C



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6. The weather change that can be attributed to global warming is

- A. an increase in extreme weather activities
- B. a decrease in humidity and rainfall
- C. a decrease in global temperature
- D. an increase in acid precipitation

Answer: A



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7. Air pollution leads to global warming, acid rain, ozone depletion and a wide variety of respiratory diseases. Which of the following activities does not contribute to air pollution?

- A. Mining of heavy metals
- B. Exhaust from motor vehicles
- C. Application of fertilizers to soil
- D. Emission of CFC's in the atmosphere

Answer: C



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8. Four events that result in the greenhouse effect are resulted below:

I. Earth reflects a part of sunlight

II. Trapped radiation heats up the atmosphere

III. The Earth's atmosphere traps the reflected sunlight.

IV. Sunlight falls on the surface of the Earth.

Which arrow diagram correctly represents the sequence of events that result in the greenhouse effect?

A. $I \rightarrow II \rightarrow III \rightarrow IV$

B. $I \rightarrow IV \rightarrow III \rightarrow II$

C. $IV \rightarrow III \rightarrow II \rightarrow I$

D. $IV \rightarrow I \rightarrow III \rightarrow II$

Answer: D



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9. Which of the following gases is not a greenhouse gas?

A. Carbon dioxide

B. Nitrous oxide

C. Ammonia

D. Methane

Answer: C



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10. Anand burns crackers on all occasions.

Every year Sameer plants a tree on his

birthday. Mehar cleans up her house and

dumps the wastes in an open'area in her

colony. Basheer collects dry leaves and twigs from the garden and burns them. Who contributes to reducing environmental pollution?

A. Anand

B. Sameer

C. Mehar

D. Basheer

Answer: B



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11. Consider the following statements regarding air pollution. I. Use of mass transit system reduces air pollution. II. Fuels such as CNG should be encouraged to reduce air pollution. III. Burning crackers reduces the CO₂ content of air.

Among the given statements,

A. only statement I is true

B. only statement III is true

C. statement I and II are true

D. statement II and III are true

Answer: C



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Worksheet 3

1. Human activities play a major role in water pollution.

Which of the following human activities does not cause water pollution?

A. Discharge of human waste into water

B. Leaching of pesticides into water

C. Exhaust from automobiles

D. Mining of heavy metals

Answer: C



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2. Which of the following chemical elements does not make water toxic?

A. Chlorine

B. Fluorine

C. Arsenic

D. Lead

Answer: A



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3. Environment has been negatively affected by an increase in industrialization. Waste material from various industries is dumped

into rivers or lakes. As a result, rivers and lakes get polluted. Which of the following occurrences is not a result of water pollution?

- A. Water borne diseases
- B. Breeding of mosquitoes
- C. Reduction in potable water
- D. Decrease in fish population

Answer: B



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4. Bald Eagle is the national bird of the United States of America. These birds prefer habitats near sea coasts, rivers, large lakes, and other large bodies of open water with an abundance of fish. Bald Eagles were on the brink of extinction in the late 20th century because of the consumption of DDT contaminated fish. The consumption of polluted fish caused the Bald Eagles to lay thin shelled eggs that cracked before hatching. The primary reason for the near extinction of the Bald Eagles was

A. air pollution

B. land pollution

C. waterpollution

D. noise pollution

Answer: C



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5. Which of the following diseases is caused by the consumption of polluted water?

A. Jaundice

B. Malaria

C. Dengue

D. Filaria

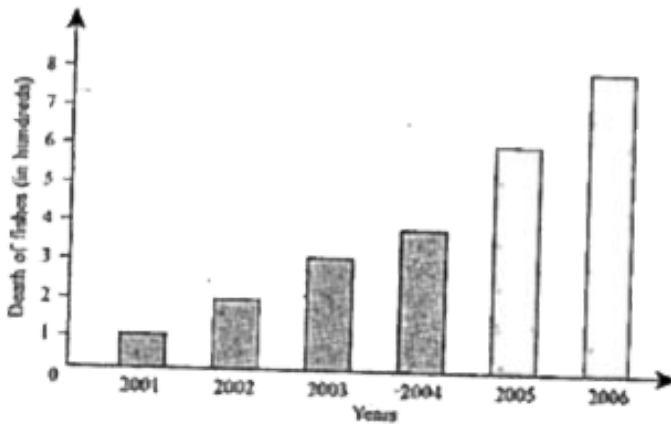
Answer: A



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6. The given graph shows the number of fishes that died in a certain lake as a result of industrial pollution, between the years 2001-2006. The number of fishes that died as a

result of industrial pollution over the years
has



- A. increased continuously
- B. decreased continuously
- C. first increased and then decreased
- D. first decreased and then increased

Answer: A



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7. In a certain town, a factory discharges its chemical waste directly into a small lake. The Yeaus water in this lake is then used by farmers for irrigation purpose. Which of the following changes will not be noted in this town?

A. The quality of the water in the lake will decrease.

B. The marine life in the lake will get seriously affected.

C. The people living nearby will suffer from water borne diseases.

D. The fertility of the lands irrigated by the lake water will increase.

Answer: D



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8. The given table lists the causes of the death of fishes in various states of the United States. The reduction in the number of fishes is mainly a result of

Cause of death of fishes	Number of U.S. states reporting it
Agricultural practices	24
Municipal facilities	16
Oil spill	17
Industrial practices	13
Land disposal	6

A. agricultural practices

B. industrial practices

C. land disposal

D. oil spill

Answer: A



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9. The excessive use of fertilizers increases the nutrient content of facilities soil. If these

nutrients find their way to a nearby lake, then it would oil spill result in the

- A. immediate death of all aquatic life
- B. immediate increase in fish population
- C. increase in the growth of aquatic vegetation
- D. increase in the amount of dissolved oxygen in water

Answer: C



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10. Which of the following consequences can be caused by an oil spill?

A. Increase in fish population

B. Increase in aquatic vegetation

C. Increase in the amount of toxins

D. Increase in the amount of dissolved oxygen

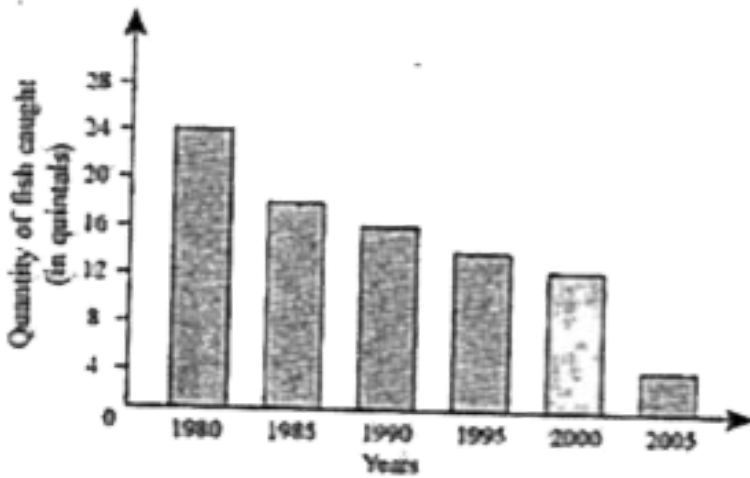
Answer: C



11. In a city, the waste from the factories is disposed directly into a river. The given graph shows the reduction in the quantity of fish caught (in quintals) from the river in the past 25 years.

The reduction in the quantity of fish caught

from 1980 to 2005 is



- A. 24 quintals
- B. 20 quintals
- C. 16 quintals
- D. 12 quintals

Answer: B



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12. Which of the following changes is not a result of an increase in water pollution?

A. Increase in the cases of jaundice and cholera

B. Increase in the amount of rainfall and floods

C. Increase in the chemical content of water bodies

D. Increase in the biological activity in water bodies

Answer: B



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13. The spilling of oil on the surface of oceans and seas is known as oil spill. Which of the

following changes is not a consequence of an oil spill?

A. Reduction in the amount of sunlight obtained

B. Increase in the concentration of toxins in water

C. Increase in the population of marine organisms

D. Reduction in the amount of dissolved oxygen in water

Answer: C



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14. Environment has been negatively affected by an increase in industrialization. Waste material from various industries is dumped into rivers or lakes. As a result, rivers and lakes get polluted.

Which of the following species is the least affected by polluted rivers?

A. Kingfisher

B. Goldfish

C. Parrot

D. Turtle

Answer: C



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15. Water pollution is a phenomenon in which unwanted substances enter into a water body

and thus into the water cycle. Which of the following is a consequence of water pollution?

A. Eutrophication

B. Greenhouse effect

C. Increase in aquatic life forms

D. Increase in the oxygen content of water

Answer: A



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16. Fertilizers, if used in excess, can run-off into water bodies. This results in an increase in the nutrient content of water. The increase in the nutrient content of water will lead to an increase in the population of

A. small fishes

B. large fishes

C. crustaceans

D. algae

Answer: D



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17. Which of the following measures does not help in purifying tap water?

A. Boiling

B. Storing in earthen pots

C. Adding chlorine tablets

D. Filtering through candle filters

Answer: B



18. The most polluted stretch of the river Ganga is the stretch that flows through the city of Kanpur in Uttar Pradesh. Which of the following activities is not the major factor responsible for the pollution of Ganga?

- A. Defecation in the river
- B. Excess fishing in the river
- C. Immersing idols of gods in the river
- D. Disposing polythene bags into the river

Answer: B



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19. A compound of calcium 'X' is used in the purification of water. It reacts with water to form another compound 'Y' with the evolution of gas 'Z'. When carbon dioxide gas is passed through 'Y', it turns milky. Gas 'Z' helps in the purification of water.

Which of the following statements regarding the given piece of information is correct?

A. X is bleaching powder, Y is calcium hydroxide, and Z is water vapour.

B. X is calcium hydroxide, Y is bleaching powder, and Z is chlorine gas.

C. X is bleaching powder, Y is calcium hydroxide, and Z is chlorine gas.

D. X is calcium hydroxide, Y is bleaching powder, and Z is water vapour.

Answer: C



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20. The aim of Ganga action plan is to

A. prevent cutting of banks by Ganga

B. reduce the pollution level in river Ganga

C. Save the endangered species present in

Ganga

D. make proper use of the Ganga water for

farming

Answer: B



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