



# BIOLOGY

## BOOKS - BETOPPERS

### OUR ENVIRONMENT

#### Worksheet 1

1. Which of these is a pollutant?

(Mercury, Lead, Sulphur dioxide, All)



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2. Which of the following is non biodegradable?

(Mineral wastes, Leather, Wood, Rubber)



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3. In recycling of paper there is \_\_\_\_\_% recovery.

(64, 54, 20, 30)



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4. Toxic drugs are disposed by\_\_\_\_\_.

(Land fills, Incineration, Deep well injection,  
Recycling)



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5. Hazardious waste liquids are disposed by

(Land fills, Incineration, Deep well injection,  
Recycling )



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6. Food waste and yard wastes can be to produce humus soil conditioner. ( **Composted, Incinerated, Biotechnologically treated , None** )



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7. Recycled glass can be used as a substitute for  
(Scrap metal, Asphalt, Concrete, Gravel or sand)



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**8. Which of the following is not a source of fresh water?**

**(Rain water, Brackish water, Surface water, Ground water )**



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**9. The main sources of water are rain and snow which form a part of the**

**(Biogeochemical cycle, Ecological cycle,  
Hydrological cycle, Photosynthetic cycle )**



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**10. The chemical used in seed clouding is**

**(Potassium iodide, Sodium iodide, Potassium  
chloride, Photosynthetic cycle)**



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**11. Wetland conservation preserves natural water storage and acts as \_\_\_\_\_ zones.**

**(Aquifer recharge, Precipitation, Surface water, Both)**



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**12. What are the methods that help in tapping run-off water?**

**(Dams and reservoirs, Rain water harvesting, Water shed management, All )**





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**13. Number of biosphere reserves in our country is:**

**(23,13,27,17)**



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**14. With respect to Kanha National park, pick the odd one out.**

**(Deer, Wild dog, Sloth bear, Chital)**



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**15. Wild peacocks are found in**

**(Mudumalia wildlife sanctuary, Viralimalai,**

**Slopes of western ghats, Vandalur)**



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**16. Bharatpur Bird Sanctuary has - species of birds.**

**(274,374, 474,574)**



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**17. An example of a producer in pond ecosystem is**

**(Vallisnaria, Clamydomonas, Volvox, Spirogyra)**



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**18. Which particles present in coal cause acid rain? (Potassium, Thorium, Sulphur, Lead)**



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19. Which of the following is generated from coal? (Mercury, Uranium, Thorium, All) .



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20. Which of the following is not a property of petroleum? (Ionizing, Naturally occurring, Toxic, Flammable )



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21. \_\_\_\_\_ is a complex mixture of hydrocarbons and other organic compounds found beneath the Earth's surface.

(Urea, PVC, Petroleum, None)



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22. Which of the following is not a green chemistry product?

(Bio Plastics, Lead free solders, Flame resistant materials , Hydrogen free flame retardants)





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**23. Which of the following is a tertiary consumer?**

**(Eagle, King fisher, Shark, All)**



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**24. The branch of science that design chemical products and processes to reduce or eliminate the use and gneration of hazardous substances.**

# (Organic Chemistry, Inorganic Chemistry, Green Chemistry, Blue Chemistry)



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## Worksheet 2

### 1. Match the column I with column II.

#### *Column-I*

- A. Land fills
- B. Deep well injection
- C. Incineration
- D. Recycling

#### *Column-II*

- P. Reclamation of waste
- Q. Burning of materials
- R. Hazardous liquid waste
- S. Bacteria



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## 2. Match the column I with column II.

### Column-I

- A. Seeding clouds
- B. Desalination
- C. Domestic Conservation
- D. Vitamin K

### Column-II

- P. Cooling water is recharged
- Q. Dry ice or potassium iodide
- R. Evaporation and re condensation
- S. Water conserving appliances



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## 3. Match the column I with column II.

### Column-I

- A. Fish
- B. Amphibians
- C. Flowering plants
- D. Mammals

### Column-II

- P. 4, 100
- Q. 3, 000
- R. 200
- S. 20, 0000



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## 4. Match the column I with column II.

### *Column-I*

- A. National Parks
- B. Wildlife sanctuaries
- C. Tiger reserves
- D. Zoos

### *Column-II*

- P. 27
- Q. 500
- R. 89
- S. 200



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## 5. Match the column I with column II.

### *Column-I*

- A. Indira Gandhi Wildlife Sanctuary
- B. Kalakkadu Wildlife Sanctuary
- C. Gulf of Mannar Marine National Park
- D. Anamalai Wildlife Sanctuary

### *Column-II*

- P. Elephant
- Q. Slopes of western Ghats
- R. Lion tailed Macaque
- S. Coral reefs



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## 6. Match the column I with column II.

### *Column-I*

- A. 374 species of birds
- B. Royal Bengal Tiger
- C. Bandhpur National Park
- D. Manas Wildlife Sanctuary

### *Column-II*

- P. West Bengal
- Q. Assam
- R. Rajasthan
- S. Karnataka



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## 7. Match the column I with column II.

### *Column-I*

- A. Indian Bison
- B. Chital
- C. Indian Darters
- D. Hispid Hare

### *Column-II*

- P. Corebett National Park
- Q. Bharathpur Bird Sanctuary
- R. Manas Wildlife Sanctuary
- S. Bandhipur National Park



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## 8. Match the column I with column II.

### *Column-I*

- A. Zooplankton
- B. Secondary Consumers
- C. Tertiary consumers
- D. Decomposers

### *Column-II*

- P. Big fishes
- Q. Larvae of dragon fly
- R. Fungi
- S. Water beetles



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**9. Assertion (A):** Indira Gandhi wildlife sanctuary is located in the western ghats.

**Reasoning (R):** Mukkurthi National Park is located in the Nilgiris. Choose the correct option

**A. A is correct and R is the correct explanation of A.**

**B. A is correct and R is not the correct explanation of A.**

**C. A is correct and R is wrong.**

**D. A is wrong and R is correct.**

**Answer: B**



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**10. Assertion (A): Oil spills at sea are causing more damage than those on land**

**Reasoning(R): Oil spills spread laterally on the water surface, Choose the correct answer**

**A. A is correct and R is the correct explanation of A.**

**B. A is correct and R is not the correct explanation of A.**

**C. A is correct and R is wrong.**

**D. A is wrong and R is correct.**

**Answer: A**



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**11. Assertion(A): Global village compares the world to a village. Reasoning(R): Global electronic village refers to connecting people around the world technologically through information communication technologies. Choose the correct answer**

**A. A is correct and R is the correct explanation of A.**

**B. A is correct and R is not the correct explanation of A.**

**C. A is correct and R is wrong.**

**D. A is wrong and R is correct.**

**Answer: A**



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**12. Assertion(A): Sulphur dioxide, carbon-monoxide, lead, mercury are pollutants.**

**Reasoning(R): They are the substances released into the environment due to natural or human activity which affects adversely the environment. Choose the correct answer**

**A. A is correct and R is the correct explanation of A.**

**B. A is correct and R is not the correct explanation of A.**

**C. A is correct and R is wrong.**

**D. A is wrong and R is correct.**

**Answer: A**



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**13. Assertion (A): Wood, paper and leather are bio-degradable wastes.**

**Reasoning (R): They cannot be broken down by biological or microbial action. Choose the correct option**



**A. A is correct and R is the correct explanation of A.**

**B. A is correct and R is not the correct explanation of A.**

**C. A is correct and R is wrong.**

**D. A is wrong and R is correct.**

**Answer: C**



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**14. Assertion (A): Plastic substances and mineral wastes are non-bio-degradable.**

**Reasoning (R): As these substances cannot be broken down by biological or microbial action, they are called non-biodegradable. Choose the correct option**

**A. A is correct and R is the correct explanation of A.**

**B. A is correct and R is not the correct explanation of A.**

**C. A is correct and R is wrong.**

**D. A is wrong and R is correct.**

**Answer: A**



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**15. Assertion (A): Hazardous waste liquids are pumped into the well by incineration.**

**Reasoning (R): The burning of materials is called incineration. Choose the correct option**

**A. A is correct and R is the correct explanation of A.**

**B. A is correct and R is not the correct explanation of A.**

**C. A is correct and R is wrong.**

**D. A is wrong and R is correct.**

**Answer: D**



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**16. Assertion (A): Killing animals, cutting down the trees, polluting land, air and water disturb the balance in nature.**

**Reasoning (R): In order to maintain the eco-balance in an ecosystem, there should be no recycling of nutrients, minerals, and water.**

**Choose the correct option**

**A. A is correct and R is the correct explanation of A.**

**B. A is correct and R is not the correct explanation of A.**

**C. A is correct and R is wrong.**

**D. A is wrong and R is correct.**

**Answer: C**



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**17. Assertion (A): In an ecosystem, the energy cannot be transferred from carnivores to herbivores, or herbivores to plants or plants**

to the sun.

**Reasoning (R):** In an ecosystem, the energy from the sun, fixed by the plants, is transferred to herbivores and carnivores i.e. the energy flows in one direction only. Choose the correct option

**A. A is correct and R is the correct explanation of A.**

**B. A is correct and R is not the correct explanation of A.**

**C. A is correct and R is wrong.**

**D. A is wrong and R is correct.**

**Answer: A**



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**18. Say true or false.**

**A. In deep well injection, hazardous liquid wastes are isolated permanently**

**B. The main sources of water are rain and ice, which form a part of the hydrological**



**cycle**

**C. Biotic factors include organic substances**

**like carbohydrates, proteins and lipids**

**D. In bio-geo chemical cycles, energy flows**

**in multiple directions.**

**Answer:**



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**Competitive Worksheet**

**1. a) All wastes are pollutants.**

**b) Air, land and water surroundings are affected due to improper disposal of wastes.**



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**2. a) High level radioactive wastes are stored in deep underground storage.**

**b) Hazardous waste liquids are soaked into non porous materials.**



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**3. a) Seed clouding can initiate rain if water laden clouds and conditions that favour evaporation are present.**

**b) Desalination is reverse osmosis**



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**4. a) Dams and reserviors transfer water through areas of deficit using canals and underground pipes.**

**b) Water shed provides water for constructions.**



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**5. a) Wildlife includes some of the natural flora and fauna of geographic region.**

**b) Large scale destruction of wildlife leads to ecological balance.**



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**6. a) Number of species of birds in India is 2000.**

**b) Number of varieties of amphibians in India is 200.**



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**7. (a.) Volvox is a water living plant.**

**(b.) Zooplanktons are primary consumers of the pond ecosystem.**



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**8. a) Minerals are continuously absorbed by plants.**

**b) Minerals are returned to soil by tertiary consumers.**



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**9. a) Green chemistry has been developed in bio chemistry toxicology, physical chemistry, etc.**

b) Coal and petroleum are synthesized using green chemistry.



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10. a) \_\_\_\_\_ science is the study of organisms in relation to surroundings.

b) Undesirable change in the physical, chemical or biological characteristics of air, land and water that affect human life adversely is called \_\_\_\_\_.



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11. A substance released due to natural or human activity and affects the environment adversely is called \_\_\_\_ b) The wastes are classified into \_\_\_\_ and \_\_\_\_.



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12. a) Separation of materials from refuse and reprocessing them for reuse is called \_\_\_\_ b) The type of water found in India are \_\_\_\_ and \_\_\_\_.





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**13. a) In the water table, water that percolates into the ground through porous rocks is called \_\_\_\_ b) The upper layer of water level is called \_\_\_\_.**



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**14. a) \_\_\_\_ preserves natural water storage and acts as aquifer recharge zones.**

b)\_\_\_\_\_ is done by collecting rainwater through pipes and storing in underground tanks fitted with motor for lifting water for use.



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15. a) All non-domesticated and non- cultivated biota found in natural habitat are termed\_\_\_\_\_.

b) Wild life sanctuaries were established in India covering an area of sq. km



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16. a) The India's first national park is\_\_\_\_\_.

b) Gir National Park is located in \_\_\_\_\_state.



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17. a) The examples of water living plants are\_\_\_\_\_.

b) The two examples of phytoplankton are\_\_\_\_\_and\_\_\_\_\_.



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18. a) \_\_\_\_\_ is an ecological community together with its environment and functioning as a complex unit.

b) \_\_\_\_\_ is the maintenance of balance between living components and the resources of an ecosystem.



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19. Gross  $CO_2$  emission from coal is more than that from \_\_\_\_ and about double the amount from \_\_\_\_.

b) Every compound of the ecosystem is connected to one another in a \_\_\_\_.



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20. a) the methods adopted for disposal of harmful waste material are \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.

**b) Wild life sanctuaries were established in India in the pursuit of\_\_\_\_\_.**



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**21. a) In an ecosystem, the energy flow is always\_\_\_\_.b) Minerals required in the ecosystem are continuously absorbed by the\_\_\_\_\_ and transferred to \_\_\_\_\_.**



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22. a) Due to its great commercial importance, petroleum is also called \_\_\_\_\_. b) \_\_\_\_\_ is the design of chemical products and processes to reduce or eliminate the use and generation of hazardous substances.



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23. Coke, Coal tar, Coal gas, Acrylic



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**24. Sulphurdioxide, Oxygen, Carbon-monoxide,  
lead**



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**25. Wood, Plastic, leather, paper**



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**26. Land Fills, Constructing dams, Deep well  
injection, Incineration.**







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## 27. Tube wells, Rivers, Lakes, Streams



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## 28. Seeding clouds, Decp well injection, Desalination, Rain water harvesting



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**29. Light, hydrilla, Sun, Water**



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**30. Pick the odd one out with respect to primary producers.**

**Hydrilla, Vallisneria, Spirogyara, Insects.**



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**31. No Killing, No Polluting land, No planting of trees, No polluting water**



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**32. Fossil fuel, Compost, Formed from organisms living under sea, Gross  $CO_2$  emission**



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**33. Introduced in 1995, Black gold, Better to prevent waste generation, Bio plastics**



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**34. Rivers, Lakes, Streams, Aquifers.**



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