



## BIOLOGY

# BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

## ENVIRONMENTAL MANAGEMENT

### Textual Evaluation Solved Fill In The Blanks

1. Deforestation leads to \_\_\_\_\_ in rainfall.



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2. Removal of soil particles from the land is called \_\_\_\_\_.



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3. Chipko movement is initiated against \_\_\_\_\_.



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4. \_\_\_\_\_ is a biosphere reserve in Tamilnadu.



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5. Tidal energy is \_\_\_\_\_ type of energy.



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6. Coal, petroleum and natural gas are called \_\_\_\_\_ fuels.



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7. \_\_\_\_\_ is the most commonly used fuel for the production of electricity.



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**Textual Evaluation Solved State Whether True Or False If False Write The Correct Statement**

1. Biogas is fossil fuel.



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2. Planting trees increases the ground water level.



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3. Habitat destruction causes loss of wild life.



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4. Nuclear energy is a renewable energy.



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5. Overgrazing prevents soil erosion.



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6. Poaching of wild animals is a legal act.



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7. National park is a protected park.



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**8.** Wild life protection act was established in 1972.



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**Textual Evaluation Solved Match The Following**

## 1. Match the following:

Column A	Column B
1. Soil erosion	(a) energy saving
2. Bio-gas	(b) acid rain
3. Natural gas	(c) removal of vegetation
4. Green house gas	(d) renewable energy
5. CFL bulbs	(e) CO <sub>2</sub>
6. Wind	(f) non-renewable energy
7. Solid waste	(g) lead and heavy metals



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**Textual Evaluation Solved Choose The Correct Answer**



1. Which of the following is/are a fossil fuel ?

i.Tar ii. Coal iii. Petroleum

A. i only

B. i and ii

C. ii and iii

D. i, ii and iii

**Answer: C**



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2. What are the steps will you adopt for better waste management ?

A. reduce the amount of waste formed

B. reuse the waste

C. recycle the waste

D. all of the above

**Answer: D**



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**3.** The gas released from vehicles exhaust are

i. Carbon monoxide

ii. Sulphur dioxide

iii. Oxides of nitrogen

A. i and ii

B. i and iii

C. ii and iii

D. i, ii and iii

**Answer: D**



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4. Soil erosion can be prevented by

- A. deforestation
- B. afforestation
- C. over growing
- D. removal of vegetation

**Answer: B**



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5. A renewable source of energy is

A. petroleum

B. coal

C. nuclear fuel

D. trees

**Answer: D**



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6. Soil erosion is more where there is .....

- A. no rain fall
- B. low rainfall
- C. rain fall is high
- D. none of these

**Answer: C**



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**7. An inexhaustible resources is.....**

- A. wind power

B. soil fertility

C. wild life

D. all of the above

**Answer: D**



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**8. Common energy source in village is**

A. electricity

B. coal

C. biogas

D. wood and animal dung

**Answer: D**



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**9. Green house effect refers to**

A. cooling of Earth

B. trapping of UV rays

C. cultivation of plants



D. warming of Earth

**Answer: D**



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**10.** A cheap, conventional , commerical and inexhaustible source of energy is

A. hydropower

B. solar energy

C. wind energy

D. thermal energy

**Answer: B**



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**11. Global warming will cause**

A. raise in level of oceans

B. melting of glaciers

C. sinking of islands

D. all of these

**Answer: D**



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**12.** Which of the following statement is wrong with respect to wind energy ?

A. wind energy is a renewable energy

B. the blades of wind mill are operated with the help of electric motor

C. production of wind energy is pollution free

D. usage of wind energy can reduce the consumption of fossil fuels

**Answer: B**



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**Textual Evaluation Solved Answer In A Sentence**

1. What will happen if trees are cut down ?



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2. (i) Write a note on euploidy.

(ii) What would happen if the habitat of wild animals is disturbed?



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3. (a) What is stage?

(b) What are the agents of soil erosion?



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4. Why fossil fuels are to be conserved?



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5. Solar energy is a renewable energy. How?



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6. How are e-wastes generated?



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**Textual   Evaluation   Solved   Short   Answer  
Questions**

1. What is the importance of rainwater harvesting?



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2. What are the advantages of using biogas?



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3. What are the environmental effect caused by sewage?



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4. What are the consequences of deforestation?





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[Textual](#)   [Evaluation](#)   [Solved](#)   [Long](#)   [Answer](#)  
[Questions](#)

1. How does rainwater harvesting structures recharge ground water?



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2. How will you prevent soil erosion?



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3. What are the sources of solid wastes? How are solid wastes managed?



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4. Enumerate the importance of forest.



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5. What are the consequences of soil erosion ?



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6. Why is the management of forest and wildlife resource considered as a challenging task?



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**Textual   Evaluation   Solved   Assertion   And  
Reasoning**

**1. Assertion:** Rainwater harvesting is to collect and store rain water.

**Reason:** Rain water can be directed to recharge the underground water source.

A. Both assertion and reason are true and reason is correct explanation of assertion.

B. Both assertion and reason are true but reason is not the correct explanation of assertion.

C. Assertion is true but reason is false.

D. Both assertion and reason are false.

**Answer: A**



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2. Assertion: Energy efficient bulbs like CFL must be used to save electric energy.

Reason: CFL bulbs are costlier than ordinary bulbs, hence using ordinary bulbs can save our money.

A. Both assertion and reason are true and reason is correct explanation of assertion.

B. Both assertion and reason are true but reason is not the correct explanation of assertion.

C. Assertion is true but reason is false.

D. Both assertion and reason are false.

**Answer: C**



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## Textual Evaluation Solved Higher Order Thinking Skills Hots

1. Although coal and petroleum are produced by degradation of biomass, yet we need to conserve them. Why?



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2. What are the objectives for replacing non-conventional energy resources from

conventional energy resources?



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**3.** Why is the Government imposing ban on the use of polythene bags and plastics? Suggest alternatives. How is this ban likely to improve the environment?



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**Textual Evaluation Solved Value Based Questions**



1. Why is it not possible to use solar cells to meet our energy needs? State three reason to support to your answer.



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2. How would you dispose the following wastes?

a. Domestic wastes like vegetable peels

b. Industrial wastes like metallic cans

Can the disposal protect the environment?

How?



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**3.** List any three activities based on 3R approach to conserve natural resources.



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## **Textbook Activities Solved**

**1.** Collect information regarding the

(i) Tehri Dam project (ii) Sardar Sarovar Dam

project



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## Additional Questions Fill In The Blanks

1. \_\_\_\_\_ is used for generation of electricity at thermal power plants.



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2. Petroleum is refined to produce ..... and ....., which are used to run automobiles, trucks, trains and ships, etc.



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3. .... and ..... obtained from petroleum are used as domestic fuel.



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4. Solar energy is obtained from .....



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5. Solar cells convert sunlight directly into  
.....



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6. \_\_\_\_\_ are converts the kinetic energy of  
flowing water into electricity.



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7. The 3R approach such as ..... and ..... may be followed to effective waste management.



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8. \_\_\_\_\_ is a reserved area for the conservation of entire wildlife including plants and animals.



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**9.** A place reserved exclusively for use of animals.



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**10.** Unwanted, non-working and out-dated electronic products become .....



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11. In India, the forests are classified into ..... forests and ..... forests.



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12. The small ponds to collect rain water is called .....



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**Additional Questions Write True Or False For The  
Following Statements Correct The False**



1. Conservation of natural resources makes important contribution to the social and economic development of the country.



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2. Over exploitation and shrinking of forest resulted, the increase of animals and the flourishing of wild life.



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3. The potential energy possessed by the wind, due to lower speed, that can be converted into chemical power by wind turbines.



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4. The main purpose of rain water harvesting is to make the rain water, run on it's surface of Earth.



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5. The burning of non-biodegradable solid wastes (medical wastes) in properly constructed furnace at high temperature is called incineration.

A. Correct statement: The burning of non-biodegradable solid wastes (medical wastes) in properly constructed furnace at high temperature is called incineration.

B.

C.

D.

**Answer:**



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**Additional Questions Match The Following**

# 1. Match the following:

- |                                   |                                    |
|-----------------------------------|------------------------------------|
| 1. Van Mahotsav                   | (a) Destruction of forests         |
| 2. Bombay Natural History Society | (b) Crude oil                      |
| 3. Deforestation                  | (c) Photovoltaic devices           |
| 4. Erosion                        | (d) Afforestation programme        |
| 5. Solar cells                    | (e) Conservation of wild life      |
| 6. Petroleum                      | (f) Removal of upper layer of soil |



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## Additional Questions Choose The Correct Answer

1. The new sources of energy is termed as

.....

A. fossil fuel

B. Conventional energy resources

C. Non-conventional sources of energy

D. conservation

**Answer: C**



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2. The solar energy which falls on the atmosphere, reaches the Earth's surface .....

A. a little less than 42%

B. more than 60%

C. more than 52%

D. a little less than 47%

**Answer: D**



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**3. The other name for Biogas is.....**

A. Natural gas

B. Nitrogen gas

C. Gobar gas

D. Shale gas

**Answer: C**



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**4.** The technique to harness the water energy is called \_\_\_\_\_.

A. hydro power



B. electrical energy

C. tidal energy

D. hydraulic fracturing

**Answer: A**



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**5. E-wastes are generally called as .....**

A. garbages

B. electronic waste

C. decomposition

D. solid wastes

**Answer: B**



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**Additional Questions Answer The Following Shortly**

1. What is conservation? Why should we conserve the natural resources?



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2. What are the effects of deforestation and benefits of agroforestry?



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3. What are the methods to conserve the forest?



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4. What are fossil fuels? How are they formed?



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5. What are the steps to be taken to conserve coal and petroleum resources?



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6. Write short notes about shale gas.



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7. What is Tidal energy? What are its advantages?



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8. How are electric energy conserved?



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9. What are the sources of e-waste? What are the environmental impact of e-wastes?



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**10.** What are 3R approach in the effective waste management?



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**11.** What are non-conventional energy resources? What does it include?



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**12.** What is the composition of Bio-gas? How is it formed?



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**13.** What is hydropower and hydropower electricity?



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**Additional Questions Answer The Following In Detail**

1. (a) What are the aims of wild life management? (b) What are the provision of the wild life protection act?



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2. Explain in detail about the classification of energy resources.



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**3.** Write notes for the following: (a) Solar cells  
(b) Solar panel (c) Solar cooker and (d) Solar thermal power plant



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**4.** (a) How does wind mill work?  
(b) List out the uses of wind energy and the advantages of wind energy.



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5. (a) What are the sources of sewage or waste water?

(b) Explain the methods which involve in the conventional waste water treatment.



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**Additional Questions Higher Orden Thinking Skills Hots**

1. Name the movement aimed at protection and conservation of trees. In which district it

originated?



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2. \_\_\_\_\_ National park was the first to be established in 1936 in Uttarakhand.



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3. Name any two wild life conservation initiatives in India.



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4. Where does Indian stand at the consumer of crude oil?



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5. The white marble of Taj Mahal become yellow due to \_\_\_\_\_ .



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6. \_\_\_\_\_ is the fourth oldest dam into the world.



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7. The world's largest and tallest wind turbine in \_\_\_\_\_.



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**8.** Name the health effects of the following E-wastes.



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