



# BIOLOGY

## BOOKS - CAMBRIDGE BIOLOGY (KANNADA ENGLISH)

### NATURAL RESOURCES

#### Question Hour

1. How is our atmosphere different from the atmosphere on venus and mars?



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**2. How does the atmosphere act as a blanket?**



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**3. What causes winds?**



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**4. How are clouds formed?**



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5. List any three human activities that you think would lead to air pollution.



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6. Why do organisms need water ?



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7. What is the major source of fresh water in the city / town / village where you live ?



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8. Do you know of any activity which may be polluting this water source ?



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9. How is soil formed?



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**10.** What is soil erosion ?



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**11.** What are the methods of preventing or reducing soil erosion ?



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**12.** What are the different states in which is found during the water cycle ?



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**13.** Name two biologically important compounds that contain both oxygen and nitrogen .



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**14.** List any three human activities which would lead to an increase in the carbon dioxide content of air .



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**15.** What is the green house effect?



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**16.** What are the two forms of oxygen found in the atmosphere.



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## Exercise

**1.** Why is the atmosphere essential for life ?



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2. Why is water essential for life ?



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3. How are living organisms dependent on the soil ? Are organisms that live in water totally independent of soil as a resource ?



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4. You have seen weather reports on television and in newspaper . How do you think we are able to predict the weather ?



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5. Write a note on how forests influence the quality of our air soil and water resources .



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6. We know that many human activities lead to increasing levels of pollution of the air water bodies and soil . Do you think that isolating these activities to specific and limited areas would help in reducing pollution ?



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**Additional Questions Choose The Correct Answer**

1. Which of the following is a renewable resource .

A. Soil

B. Water

C. Flora & Funa

D. All the above

**Answer: D**



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2. Of atmosphere provides protection to our life .

A. Nitrogen

B. Hydrogen

C. Ozone

D. Argon

**Answer: C**



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3. Which of the following soil is the best for plant growth ?

A. Sandy soil

B. Clay

C. Gravel

D. Loamy soil

**Answer: D**



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4. Both power and manure are provided by .

A. Thermal plants

B. Nuclear plants

C. Biogas plants

D. Hydroelectric plants.

**Answer: C**



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5. Atomic energy is obtained by using ores of

A. Copper

B. Uranium

C. Neither (a) & (b)

D. Both (a) and (b)

**Answer: B**



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**6.** Biogas generation is mainly based on the principle of



A. Fermentation

B. Degradation

C. Putrification

D. Both (a) and (b)

**Answer: A**



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7. Floods can be prevented by

A. Afforestation

B. Cutting the forests

C. Tilling the land

D. Removing the top soil

**Answer: A**



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**8. Which one of the following is not a fossil fuel ?**

A. Natural gas

B. Petrol

C. Coal

D. Uranium

**Answer: D**



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9. A biosphere reserve conserves and preserves.

A. Wild animals

B. Wild land

C. Natural vegetation

D. all the above

**Answer: D**



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**10.** Is the major raw material for biogas.

A. Plant leaves

B. Cowdung

C. Mud

D. Grass

**Answer: B**



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## Additional Questions Fill In The Blanks

1. Green plants of an ecosystem are called  
\_\_\_\_\_.



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2. \_\_\_\_\_ is an example for non renewable energy .



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3. Ozone layer is located at \_\_\_\_\_ sphere .



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4. Energy flow in the ecosystem is \_\_\_\_\_



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5. \_\_\_\_\_ & \_\_\_\_\_ are two important group of detritivores .



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## Additional Questions Answer Thr Following

1. State the role of the atmosphere in climate control ?



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2. How is acid rain caused ?



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3. What are biogeochemical cycles ? Name the gas that is incorporated into life forms through photosynthesis.



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4. What is the function of humus in soil?



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5. Name two biologically important compounds that contain both oxygen and nitrogen .



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6. What is the green house effect?



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7. Why does mathura refinery pose problems to the taj mahal ?



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8. Lichens are called pioneer colonisers of bare rock. How can they help in to formation of soil ?



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**9.** Explain the following terms

(i) Nitrogen fixation

(ii) Nitrification

(iii) Denitrification



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**10.** What are the three ways by the  $CO_2$  is returned back into atmosphere are :



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## 11. Match the following :

*A*

*B*

Air pollution

(*a*) Nitrification

water pollution

(*b*) Carbonate

Soil pollution

(*c*) Nitrogen and sulphur

Nitrogen cycle

(*d*) Sewage

Carbon cycle

(*e*) Chemical fertilizers



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## Unit Test

1. Ozone layer is located at \_\_\_\_\_ sphere.



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2. Biogas generation is mainly based on the principle of



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3. How is acid rain caused ?



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#### 4. Explain the following terms

(i) Nitrogen fixation

(ii) Nitrification

(iii) Denitrification



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