

Tobermory High School

Standard Grade Biology

The Biosphere

How it works

1. Write down the meaning of the following words:

- | | |
|----------------|---------------|
| (a) population | (b) habitat |
| (c) community | (d) ecosystem |
| (e) producer | (f) consumer. |

(6)

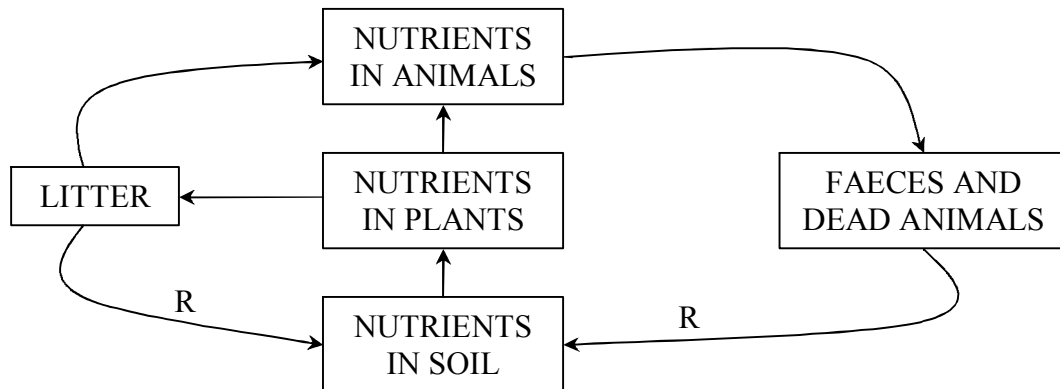
2. Draw a food chain containing 5 organisms, and from this, draw a pyramid of numbers.

(2)

3. Name 4 factors which can limit a population growth.

(2)

4. The following diagram shows recycling of nutrients in an ecosystem.



(a) Name a nutrient, essential for the plants growth, which might be recycled in this manner.

(1)

(b) Describe one way in which nutrients could be lost from this ecosystem.

(1)

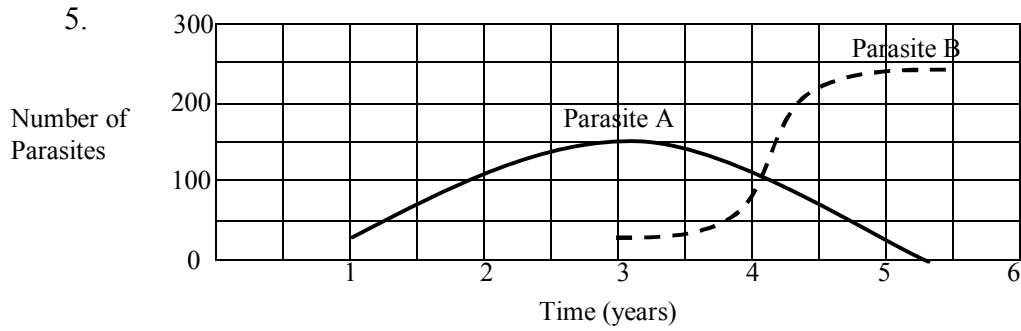
(c) Describe two ways in which nutrients could enter the cycle to replace losses.

(2)

(d) Name two groups of decomposers responsible for the process R.

(2)

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A and B are two species of insect parasites which feed on fruit flies.

In a experiment parasite A was introduced after one year and parasite B after 3 years.

(a) Describe how the population of parasite A changes over the five years, after its introduction.

(1)

(b) Describe how the population of parasite B changed.

(1)

(c) Suggest why parasite A dies out.

(1)

(d) Suggest why the population of parasite B levels out.

(1)

Total = 20