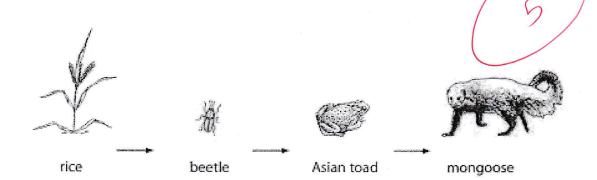
| Question One: | |
|--|----|
| Identify the proper terms for the descriptions given below. (2 marks) | |
| a) The position of a living thing in a food chain. b) The living things that eat and recycle dead animals and plants c) animals that eat both plants and animals. d) Animals that eat only animals. | |
| Question Two: (2 marks) | |
| Choose the correct answer from the given choices. | |
| 1. Biomass is the Energy in living organisms. | |
| a) Minerals b) Nutrients c) Energy | |
| 2. Autotrophs, the Producers in a food web, convert the sun's energy into bioma | SS |
| a) Producers b) Primary Consumers c) Secondary consumers | |
| 3. There is always more biomass in lower trophic levels than in higher ones | • |
| a) More b) Less | |
| 4. Which of the following is a reason why <u>not</u> all the energy at one trophic level is passed to the next level? | |
| a) Animals can eat and digest all of a plant or animalb) The energy can't be passed | |
| c) Energy is used in life processes such as movement | |

Question Three:

(5 marks)

The food chain below shows feeding relationships in paddy fields in Sri Lanka.

Use the food chain to answer the following questions.

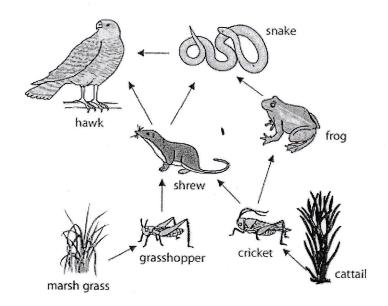


- 1. Name the secondary consumer. _
- 2. Which organism is both a prey and a predator.
- 3. Which trophic level is the beetle?
- 4. Calculate the amount of energy that will be transferred to the mongoose if the energy available in rice is 10,000 J.
- 5. What do the arrows in a food chain represent?

Question Four:

(6 marks)

The diagram shows a food web from a habitat. Use it to answer the following questions.



- 1. How many producers are represented in this food web? _____
- The hawk catches and eats its prey.Give the name used to describe the hawk in this food web.
- 4. List two herbivores. _ _____
- 5. A pesticide can be used to kill the grasshoppers in this habitat. State whether the following statements are **true** of **false**.
 - I. Killing grasshoppers would increase the number of shrews.
 - II. Killing grasshoppers would increase the number of marsh grass plants.
- 6. Write one food chain that you could find from the food web.

Question Five:

(5 marks)

George and Rafi are investigating the position of decomposers in a food chain.

George says that decomposers should be at the beginning of a food chain, while Rafi says that they are placed whenever there is waste.

1. Which answer is correct? Give the reason.

- 2. Why are decomposers called the cleaners in nature?
- 3. What would happen if decomposers were absent from a forest ecosystem?
- 4. People need a lot of food and produce a lot of bodily waste.

 Give <u>two</u> ways in which decomposers are <u>used</u> to help us solve these problems.
- 5. Give one example of a decomposer.