

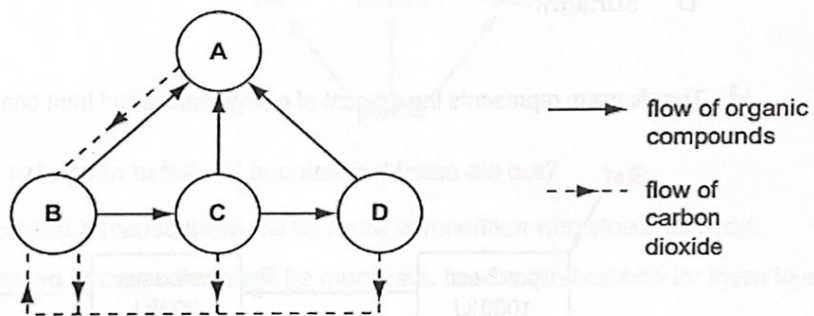


Question 1 : Circle the correct answer

1. The diagram shows the flow of substances within an ecosystem.

The circles represent trophic levels.

Which circle represents herbivores?

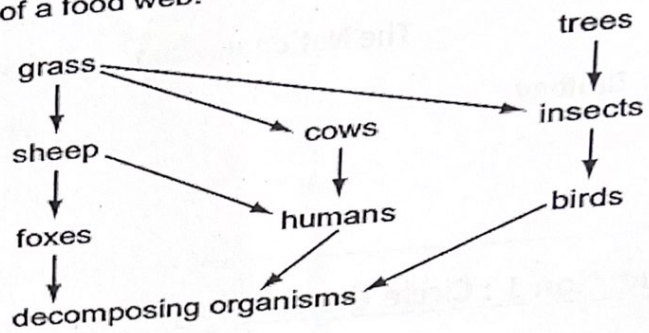


2. Which sequence describes the flow of energy in an ecosystem?

- A carnivore → herbivore → plant → Sun
- B plant → herbivore → carnivore → Sun
- C Sun → carnivore → herbivore → plant
- D Sun → plant → herbivore → carnivore



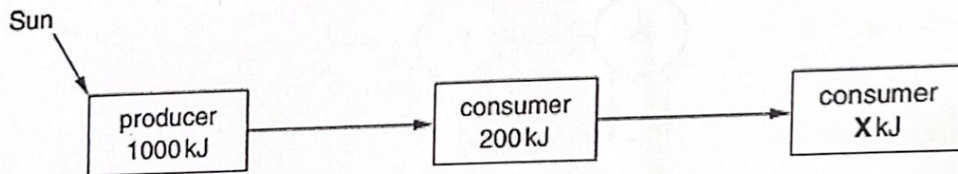
3 The diagram shows part of a food web.



What is the source of energy that enters this food web?

- A decomposing organisms
- B heat
- C oxygen
- D sunlight

4. The diagram represents the amount of energy transferred from one trophic level to the next.



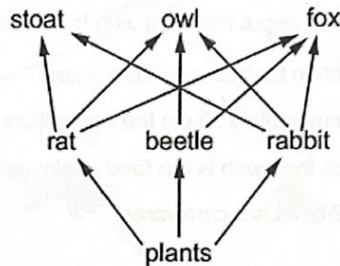
What is the likely value of X?

- A 200 kJ
- B 100 kJ
- C 20 kJ
- D 2 kJ

5. Which type of organism depends **directly** on light energy for its nutrition?

- A carnivore
- B decomposer
- C herbivore
- D producer

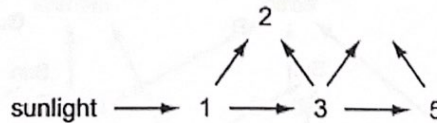
6. The diagram shows a food web.



What is likely to happen to the owl population if foxes die out?

- A It will decrease because there will be more competition with stoats for food.
- B It will increase because there will be more rats, beetles and rabbits for them to eat.
- C It will stay the same because owls do not eat foxes.
- D It will stay the same because stoats will eat less food.

7. The diagram shows energy flow in a food web.



Which number represents an organism that eats both plants and animals?

- A 2
- B 3
- C 4
- D 5

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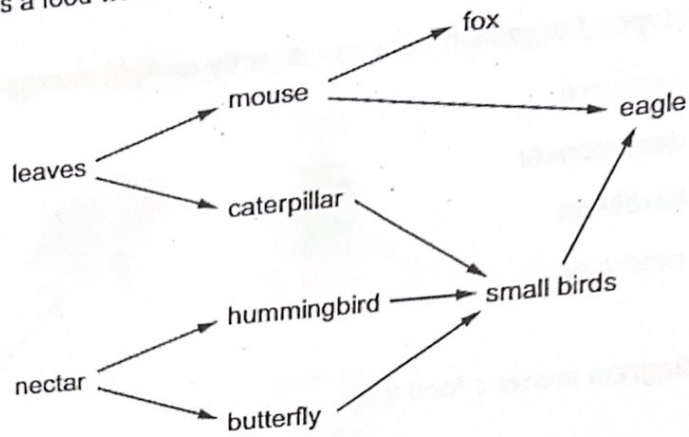
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8. The diagram shows a food web.



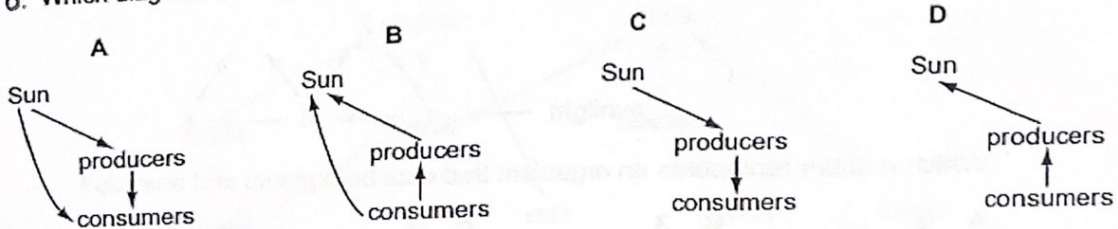
Which statement about this food web is correct?

- A Eagles obtain their energy from foxes.
- B If the hummingbirds all die the caterpillars will have more food.
- C Part of this food web is the food chain: nectar → caterpillar → small birds
- D The small birds are carnivores.

9. By which process do producers obtain energy?

- A digestion
- B photosynthesis
- C translocation
- D transpiration

10. Which diagram shows part of the energy flow in an ecosystem?



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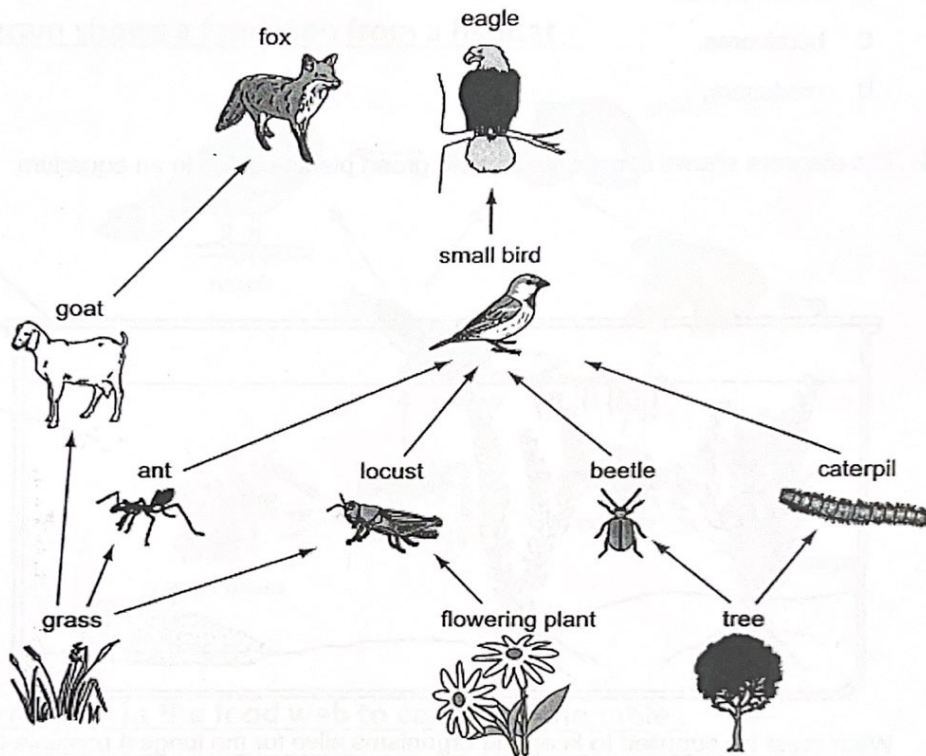
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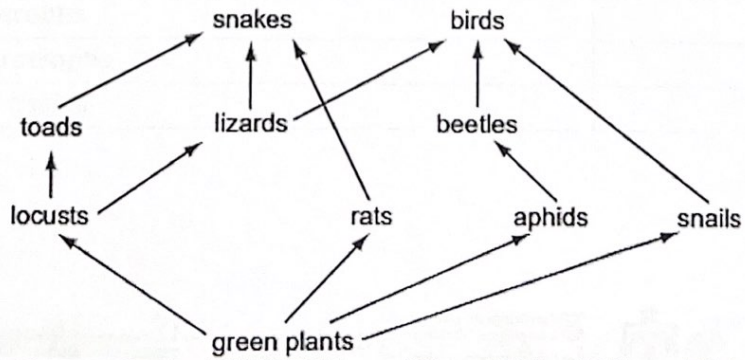
11. The diagram shows part of a food web.



How many herbivores are shown?

- A 3 B 4 C 5 D 6

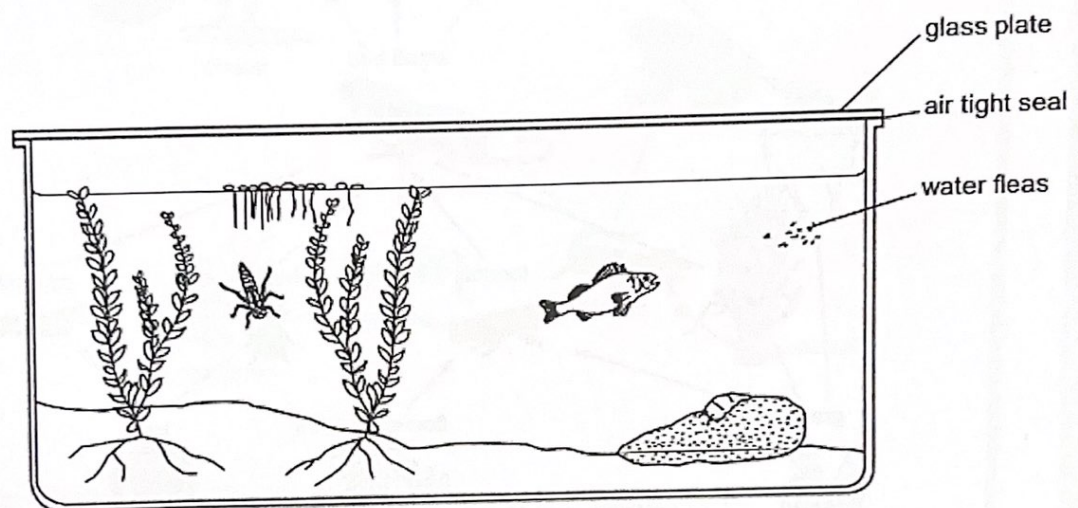
12. The diagram shows a food web in woodland.



In this food web, the beetles are

- A carnivores.
- B decomposers.
- C herbivores.
- D producers.

13. The diagram shows some animals and green plants sealed in an aquarium.



What must be supplied to keep the organisms alive for the longest possible time?

- A carbon dioxide
- B light energy
- C nitrates
- D oxygen

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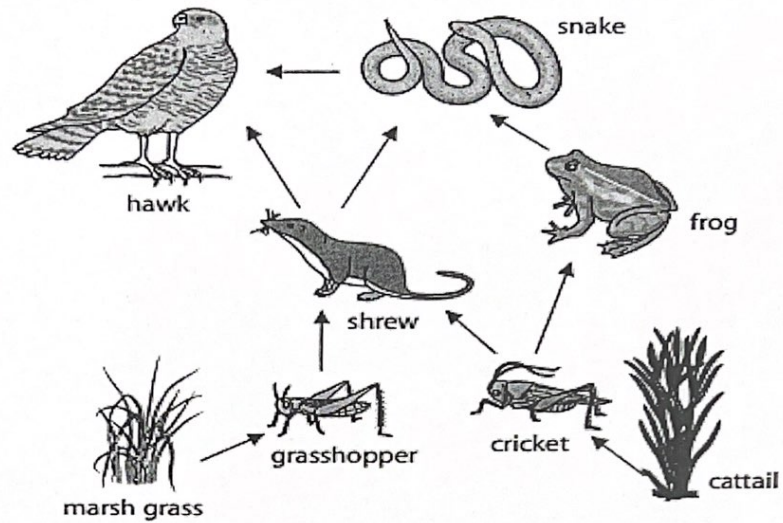


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Question 2 :

The diagram shows a food web from a habitat .



Use information in the food web to complete the table .

Number of organisms	
Number of different types of plants	
Number of primary consumers	
Number of organisms in the 1 st trophic level	
Number of organisms in the 3 rd trophic level	
Number of autotrophs	
Number of heterotrophs	
Number of food chains	

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