

## **GCSE Biology A (Gateway)**

**J247/02** B4-B6 and B7 Foundation (Foundation Tier)

### **Question Set 1**

Multiple Choice Questions

B4: Community Level Systems

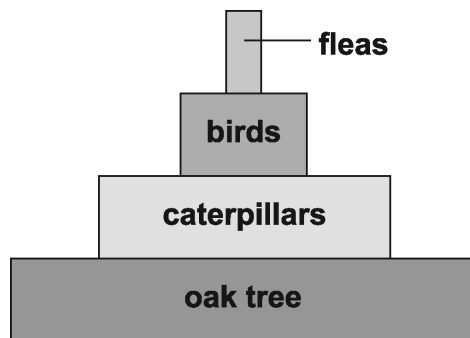
1. Which statement is an example of sustainability?

- A Harvesting selected trees from a forest and replanting.
- B Replacing forests with food crops.
- C Taking fish from the sea faster than they can reproduce.
- D Using crude oil to make plastics.

Your answer

[1]

2. Look at the pyramid of biomass.



What can you tell from this pyramid of biomass?

- A All four trophic levels contain consumers.
- B Fleas are producers.
- C The trophic level with oak trees has the lowest biomass.
- D There are fewer birds than caterpillars.

Your answer

[1]

3. A sperm cell of a mouse has 20 chromosomes.

Which row in the table shows the correct number of chromosomes in each cell?

	Number of chromosomes in	
	a mouse egg cell	a mouse eye cell
A	20	20
B	20	40
C	40	20
D	40	40

Your answer

[1]

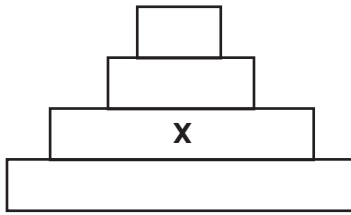
4. Which process in the carbon cycle takes in carbon dioxide from the air?

- A Combustion
- B Decomposition
- C Photosynthesis
- D Respiration

Your answer

[1]

5. The diagram shows a pyramid of biomass.



Which trophic level is X?

- A Primary consumers
- B Producers
- C Secondary consumers
- D Tertiary consumers

Your answer

[1]

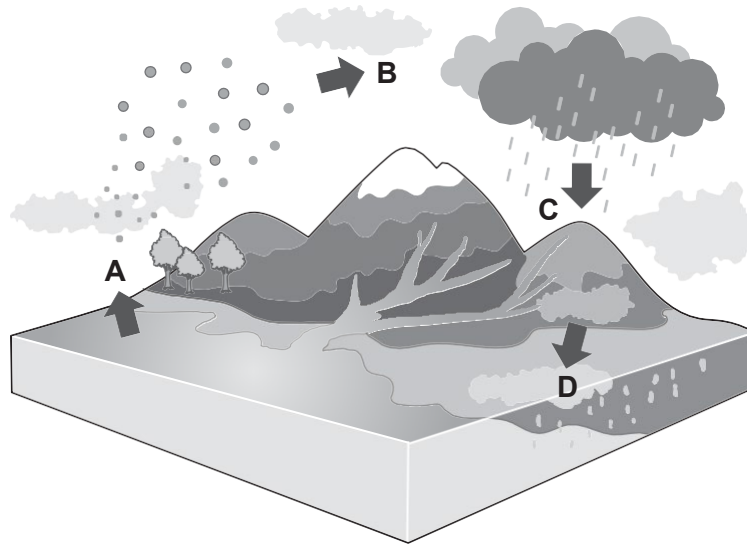
6. Which of these is an **abiotic** factor that can affect organisms?

- A Food availability
- B Light intensity
- C Pathogens
- D Predators

Your answer

[1]

7. The diagram shows the water cycle.



Which label, **A**, **B**, **C** or **D**, represents evaporation?

Your answer

[1]

8. Which relationship describes an organism living on an animal and harming it?

- A** Decomposition
- B** Mutualism
- C** Parasitism
- D** Predation

Your answer

[1]

9. Most food chains only have a maximum of five trophic levels.

Explain why.

- A** Organisms always get larger at higher trophic levels.
- B** Energy is lost at each trophic level.
- C** It is more energy efficient to eat meat than plant material.
- D** The number of organisms feeding always increases at higher trophic levels.

Your answer

[1]

**Total Marks for Question Set 2: 9**

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