

Cambridge International AS & A Level

BIOLOGY (9700) P1

TOPIC WISE QUESTIONS + ANSWERS | COMPLETE SYLLABUS



Chapter 16

Biodiversity, classification and conservation

16.1 Biodiversity

1617. 9700_s15_qp_11 Q: 39

In an ecosystem, at which stage is most energy lost?

- A sunlight → trophic level 1
- B trophic level 1 → trophic level 2
- C trophic level 2 → trophic level 3
- D trophic level 3 → trophic level 4

1618. 9700_s15_qp_11 Q: 40

Two species of animal are found in the same area of forest and grassland. In the spring and summer they eat the same plant food. However, in the autumn and winter one eats nuts in the forest and the other eats roots on the grassland.

Both species are preyed upon by the same predator. Numbers of root-eating animals are reduced most by this, but they **recover** faster since they reproduce faster.

What can be concluded about these two species of animals?

- 1 They are part of the same community.
- 2 They are at different trophic levels.
- 3 They occupy different habitats.
- 4 They have different niches.

- A 1, 2 and 4 B 2, 3 and 4 C 1 and 2 only D 1 and 4 only
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1619. 9700_w15_qp_11 Q: 38

A tree carries out photosynthesis and provides organic compounds for other organisms in a forest.

It takes carbon dioxide from the atmosphere and returns oxygen to the atmosphere.

It takes water from the soil into its roots and its leaves lose water to the atmosphere.

Many other organisms live in the tree.

Which term describes the tree?

- A population
- B community
- C ecosystem
- D trophic level

16.2 Conservation

1620. 9700_s15_qp_11 Q: 38

Which soil would have the smallest number of denitrifying bacteria?

- A compressed agricultural soil
- B poorly drained forest soil
- C water-logged clay soil
- D well-aerated garden soil

