4.1 Species, Communities, Ecosystems & Energy Flow

Question Paper

Course	DP IB Biology
Section	4. Ecology
Topic	4.1 Species, Communities, Ecosystems & Energy Flow
Difficulty	Easy

Time allowed: 10

Score: /5

Percentage: /100



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Question 1

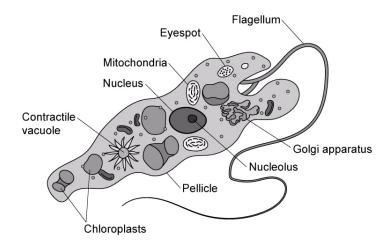
Which is the correct definition for a species?

- A. A group of organisms which look similar.
- B. A group of organisms with similar characteristics.
- C. A group of organisms which can interbreed to produce fertile offspring.
- D. A group of living things.

[1 mark]

Question 2

Euglena is an autotroph.



Identify, from the diagram, the feature which indicates this is an autotrophic organism.

- A. Nucleolus
- B. Chloroplast
- C. Contractile vacuole
- D. Mitochondria

[1 mark]



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Question 3

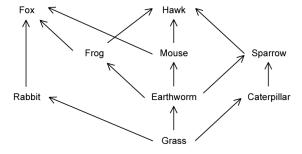
Which option correctly lists some abiotic features of an ecosystem?

- A. Mineral ions, light intensity, temperature
- B. Competition, predation
- C. pH, producers, mineral ions
- D. Wind speed, decomposition, mineral ions

[1 mark]

Question 4

Identify the main energy transfers carried out by the organisms in the food web below:



	Grass	Rabbit
Α	light → chemical	chemical → light
В	chemical → light	kinetic → heat
С	light → heat	chemical → thermal
D	light → chemical	chemical → kinetic

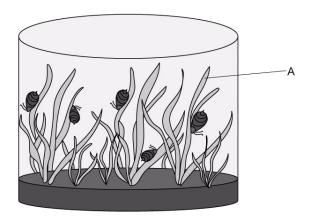
[1 mark]



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Question 5

A simple aquatic mesocosm is shown below



Why is ${\bf A}$ an important component of the mesocosm?

- A. ${f A}$ provides protection for the primary consumers from predators.
- B. A converts heat energy to chemical energy.
- C. A provides carbohydrates and oxygen to support the mesocosm.
- D. A helps to maintain a stable temperature.

[1 mark]