1.23 Ecosystems, Adaptation and Feeding Relationships: 10-minute Pack

AQA 8464 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Ecosystems can be described using several levels of organisation.

(a) State what is meant by the term 'population'. **(2)**

(b) State what is meant by the term 'community'. **(1)**

(c) The terms 'organism', 'population', 'community' and 'ecosystem' each describe a different level of organisation. Write these four terms in order, starting with the smallest level of organisation and ending with the largest. **(2)**

(Total for Question 1 is 5 marks)

2 Six factors that can affect the organisms living in an ecosystem are listed below.

1 soil pH
2 number of predators
3 concentration of dissolved oxygen in a pond
4 wind intensity
5 presence of a new pathogen
6 competition for mates

Classify each factor as abiotic or biotic.

(Total for Question 2 is 3 marks)

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Mark scheme · 1.23 Ecosystems, Adaptation and Feeding Relationships: 10-minute Pack

Question 1

(a) refers to all the organisms of one species (oe) **B1**

(a) living in the same area (habitat) at the same time (oe) **B1**

(a) Answer: All the organisms of one species living in the same area (habitat) at the same time.

(b) all the populations of different species living in the same area (habitat) at the same time (oe) **B1**

(b) Answer: All the populations of different species living in the same area (habitat) at the same time.

(c) organism placed first (smallest) and ecosystem placed last (largest) **B1**

(c) population placed before community, as the second and third terms respectively **B1**

(c) Answer: organism, population, community, ecosystem

Question 2

5 or 6 factors correctly classified (abiotic: soil pH, dissolved oxygen concentration, wind intensity; biotic: number of predators, presence of a new pathogen, competition for mates) **B3**

3 or 4 factors correctly classified **B2**

1 or 2 factors correctly classified **B1**

Answer: Abiotic: soil pH, concentration of dissolved oxygen, wind intensity. Biotic: number of predators, presence of a new pathogen, competition for mates.

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