1.7 Ecology: 10-minute Pack

AQA 8461 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A simple food chain in a pond is: algae -> water snails -> small fish -> heron.

(a) State the producer in this food chain. **(1)**

(b) State the tertiary consumer in this food chain. **(1)**

(Total for Question 1 is 2 marks)

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2 Ecologists use several key terms to describe how organisms interact with each other and their surroundings.

(a) Define the term 'population'. **(1)**

(b) Define the term 'community'. **(1)**

(c) Define the term 'habitat'. **(1)**

(d) Define the term 'ecosystem'. **(1)**

(Total for Question 2 is 4 marks)

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3 Ecologists measured the number of daisies in two fields. Field A had 40 daisies in a 2 m squared area. Field B had 30 daisies in a 1 m squared area.

(a) Calculate the density of daisies (number per m squared) in Field A. **(1)**

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(b) Which field has the higher density of daisies? Give a reason using your calculation. **(1)**

(Total for Question 3 is 2 marks)

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Mark scheme · 1.7 Ecology: 10-minute Pack

Question 1

(a) algae cao **B1**

(a) Answer: Algae

(b) heron cao **B1**

(b) Answer: Heron

Question 2

(a) all the organisms of one species living in the same area at the same time (oe) **B1**

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

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

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

(c) the place where an organism lives (oe) **B1**

(c) Answer: The place where an organism lives.

(d) the interaction of a community of living organisms (biotic) with the non-living (abiotic) parts of their environment (oe) **B1**

(d) Answer: The interaction of a community of living organisms with the non-living parts of their environment.

Question 3

(a) density = 40 / 2 = 20 per m squared **B1**

(a) Answer: 20 per m squared

(b) Field B, because its density is 30 per m squared which is greater than 20 per m squared, oe **B1**

(b) Answer: Field B, because density is 30 per m squared which is greater than 20 per m squared.

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