OCR GCSE 21ST CENTURY BIOLOGY B · J257

BIOLOGY



EXAM QUESTION PACK

B6.3 HOW DOES OUR UNDERSTANDING OF BIOLOGY HELP US CLASSIFY THE DIVERSITY OF ORGANISMS ON EARTH? (FOUNDATION)

SCORE	PERCENTAGE
/14	%

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1(a). Scientists have collected an animal from deep in the ocean.

This species of animal has never been seen before.

It will have to be classified into a group in the animal kingdom.

What is meant by the word *species*?

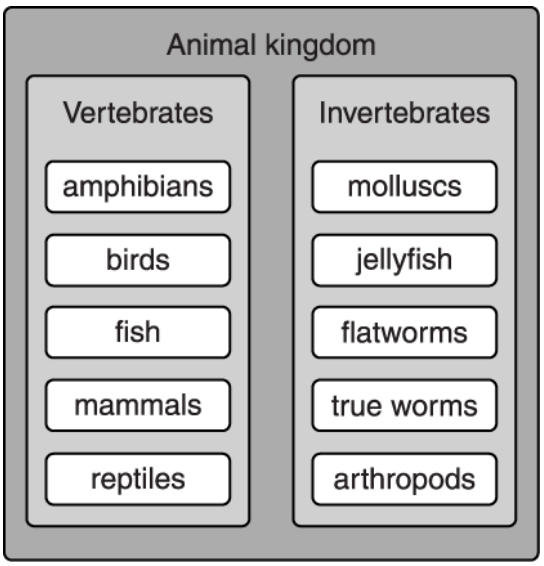
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[2]

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(b). The diagram shows some groups of animals in the animal kingdom.



The animal discovered in the deep ocean is an invertebrate. It is similar to a jellyfish.

Put a tick (?) in the correct box next to each statement to show whether it is **true** or **false**.

Use the diagram to help you.

	True	False
All jellyfish are invertebrates.	☐	☐
Jellyfish are a type of fish.	☐	☐
The newly discovered animal could be a mammal.	☐	☐
All animals are vertebrates.	☐	☐

[2]

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2(a). The process of evolution has produced many new species.

Explain how evolution produces new species.



The quality of written communication will be assessed in your answer.

[6]

(b). A team of scientists are looking for new species in the Amazon jungle.

They discover an unusual beetle.

Explain what would prove that it was a new species.

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(c). Classification of living organisms can be very useful to scientists.

Put ticks (✓) in the boxes next to the **two** best reasons why.

Classification helps to …

… make sense of the enormous diversity of organisms on Earth. ☐

… increase biodiversity. ☐

… improve sustainability. ☐

… reduce the number of disease causing predators. ☐

… show the evolutionary relationships between organisms. ☐

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END OF QUESTION PAPER

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