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Level: IGCSE Oxford AQA Biology (9201)

Subject: Biology

Topic: IGCSE AQA Biology



To be used by all students preparing for IGCSE Oxford AQA Biology (9201)
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Biology

IGCSE AQA

Key skills



1. Figure 1 shows a ring-tailed lemur.

Figure 1



The table below shows part of the classification of the ring-tailed lemur.

	Classification group	Name
	Kingdom	Animalia
EXA	Phylum	Chordata
Cept right © 2024 (Com Pay	is Practice	Mammalia
		Primates
		Lemuroidea
	Genus	Lemur
		catta

(a) Complete the table above to give the names of the missing classification groups.

(b) Give the binomial name of the ring-tailed lemur.

Use information from the table above.

(1)

(2)



Lemurs are only found on the island of Madagascar.

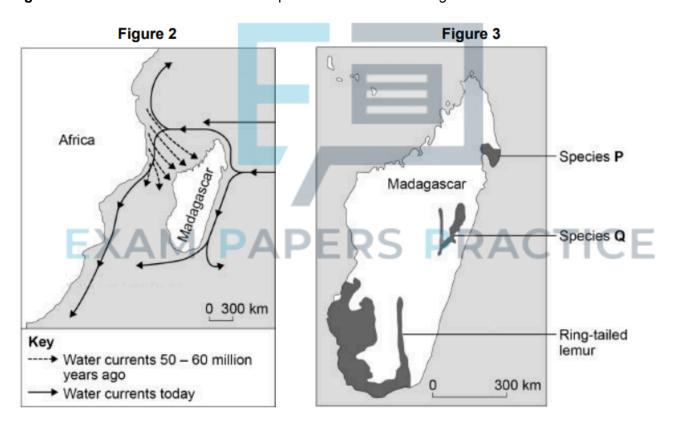
Madagascar is off the coast of Africa.

Scientists think that ancestors of modern lemurs evolved in Africa and reached Madagascar about 50-60 million years ago.

Today there are many species of lemur living on Madagascar.

Figure 2 shows information about water currents.

Figure 3 shows the distribution of three species of lemur on Madagascar.



(c)	Suggest how ancestors of modern lemurs reached Madagascar.



		7	

(Total 9 marks)

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- 2. Living organisms are classified into the following groups:
 - Kingdom
 - Phylum
 - Class
 - Order
 - Family
 - Genus
 - Species
 - (a) Which scientist first suggested this type of classification system?

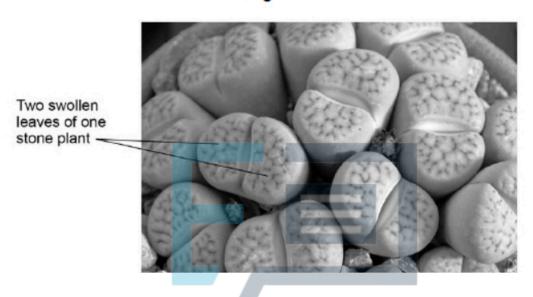




The stone plant, Lithops bromfieldi, is adapted to live in very dry deserts.

Figure 1 shows several stone plants.

Figure 1



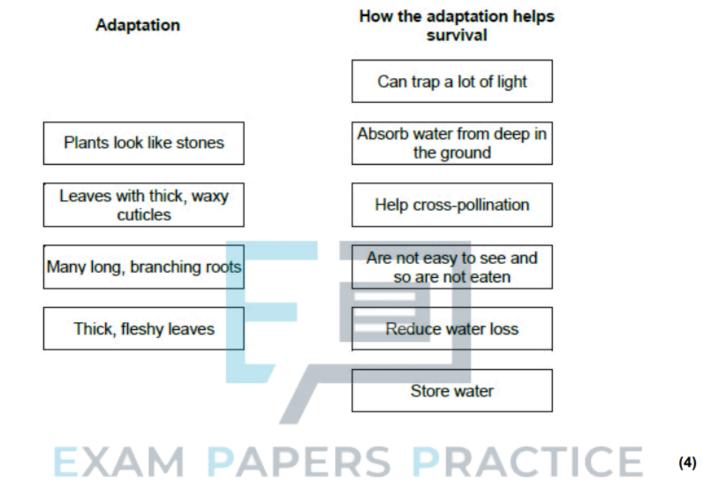
(b) Give the genus to which the stone plant belongs.

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(c) The stone plant has many adaptations that help it to survive in the desert.

Draw one line from each adaptation to how the adaptation helps the stone plant to survive.





The jerboa is a small desert animal.

Figure 2 shows a jerboa.

Figure 2



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The jerboa is adapted for survival in the desert.

The jerboa spends the daytime in its underground burrow.

The jerboa only leaves its burrow to look for food during the night.

(e)	What type of adaptations are described in Question (d)?	(2
	Tick one box.	
	Behavioural	
	Functional PAPERS PRACTICE	
	Structural	
		(1

(Total 9 marks)

- The image below shows:
 - · Phiomia, an ancestor of elephants
 - a modern African elephant.

Phiomia lived about 35 million years ago.



Phiomia African elephant The second second

Both Phiomia and the African elephant reach up into trees to get leaves.

In the 1800s, Darwin and Lamarck had different theories about how the long nose of *Phiomia* evolved into the trunk of the African elephant.

(a) (i) Use Darwin's theory of natural selection to explain how the elephant's trunk evolved.

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				-
				-

© Dorling Kindersley via Thinkstock



(ii) La	amarck's theory is different from Darwin's theory.	
Use I	Lamarck's theory to explain how the elephant's trunk evolved.	
		(2)
(b)	(i) In the 1800s, many scientists could not decide whether Lamarck's theory or Darwin's theory or ght one. Give two reasons why. 1. 2. (ii) Before the 1800s, many people had a different idea to explain where all the living	was (2)
	things on Earth came from.	
	What idea was this?	
		(1)

(Total 9 marks)



4. Figure 1 shows a fossil of a sea animal called a Plesiosaur. The Plesiosaur was alive about 135 million years ago.

Figure 1



By Andy Dingley (Own work) [CC-BY-SA-3.0 (http://creativecommons.org/licenses/by-sa/3.0)], via Wikimedia Commons

(a)	How can	fossils	give	evidence	for	evolution	n?
-----	---------	---------	------	----------	-----	-----------	----

Tick (✓) one box.

(b)

Newer fossils are simpler than older fossils.

Fossils show change over time.

All fossils show the bones of animals.

Plesiosaurs lived in the sea. There was mud at the bottom of the sea.

Suggest how the fossil shown in **Figure 1** may have been formed after the animal died.

(1)



c) Figure 2 shows what scientists think a living Plesiosaur may have looked like.

Figure 2



Scientists think that the Plesiosaur had smooth skin, with no scales.

The scientists cannot be certain what the skin of a Plesiosaur was like.

Plesiosaurs are now extinct.	
Give two possible reasons why.	
1	

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(2)

(Total 7 marks)



Complete the sentences about evolution. (a) 5. Draw a ring around the correct answer to complete each sentence. artificial Darwin suggested the theory of evolution by (i) natural selection. asexual (1) (ii) Darwin's theory of evolution says that all species of living things have artificial evolved from life forms. complex simple three billion (iii) Most scientists believe that life first developed about three million three thousand

(1)

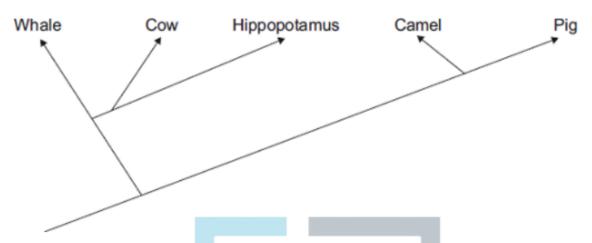
years ago.



(b)	Darwin's theory of evolution was only slowly accepted by other people.	
	Give two reasons why.	
	1	
	2	
(c)	Diagram 1 shows one model of the relationship between some animals.	(2)
	Whale Cow Hippopotamus Pig Camel	
	EXAMPAPERS PRACTICE	
	(i) Complete the sentence.	
	The model shown in Diagram 1 is an evolutionary	(1)
(ii) W	hich two of the animals in Diagram 1 are most closely related?	
	and	
		(1)
(iii) D	iagram 2 shows a more recent model of the relationship between the animals.	



Diagram 2



Suggest one reason why scientists have changed the model of the relationships between the animals shown in the diagram.

Draw a ring around the correct answer.

more powerful computers

new evidence from fossils

new species discovered

XAM PAPERS PRACTICE (1)
(Total 8 marks)