Surname

2

Other Names



GCE AS/A level

1072/01

# BIOLOGY – BY2

A.M. MONDAY, 3 June 2013

 $1\frac{1}{2}$  hours

## Suitable for Modified Language Candidates

For Examiner's use only					
Question	Maximum Mark	Mark Awarded			
1.	8				
2.	13				
3.	13				
4.	12				
5.	5				
6.	9				
7.	10				
Total	70				

#### ADDITIONAL MATERIALS

In addition to this paper you may require a calculator and a ruler.

#### INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use pencil or gel pen. Do not use correction fluid.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer all questions.

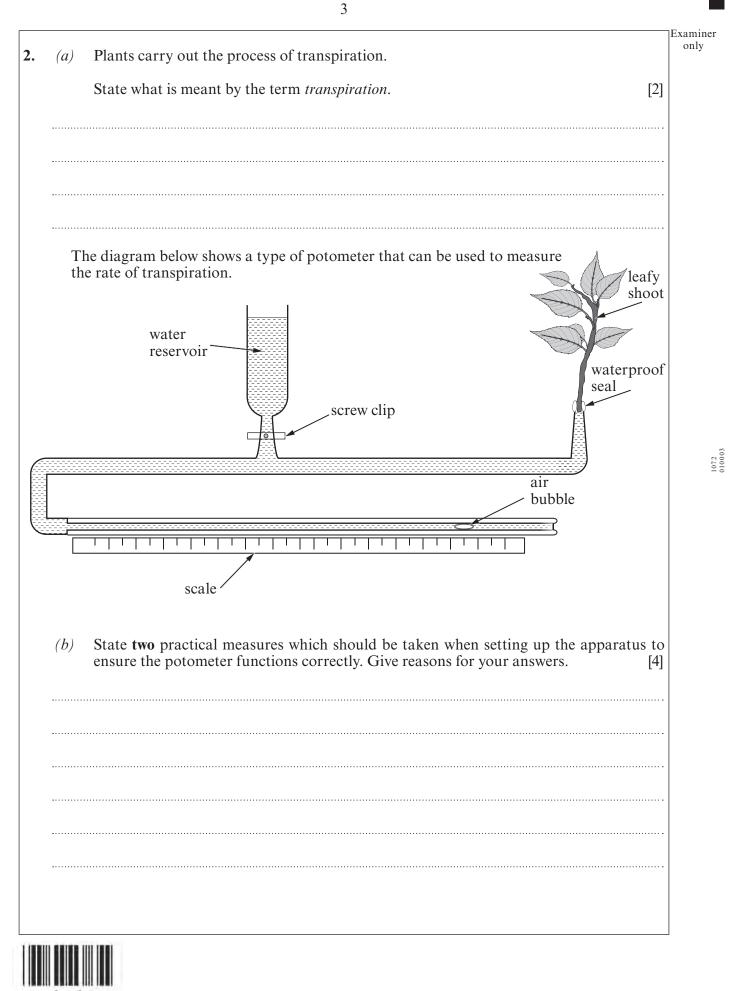
Write your answers in the spaces provided in this booklet. If you run out of space, use the continuation pages at the back of the booklet, taking care to number the question(s) correctly.

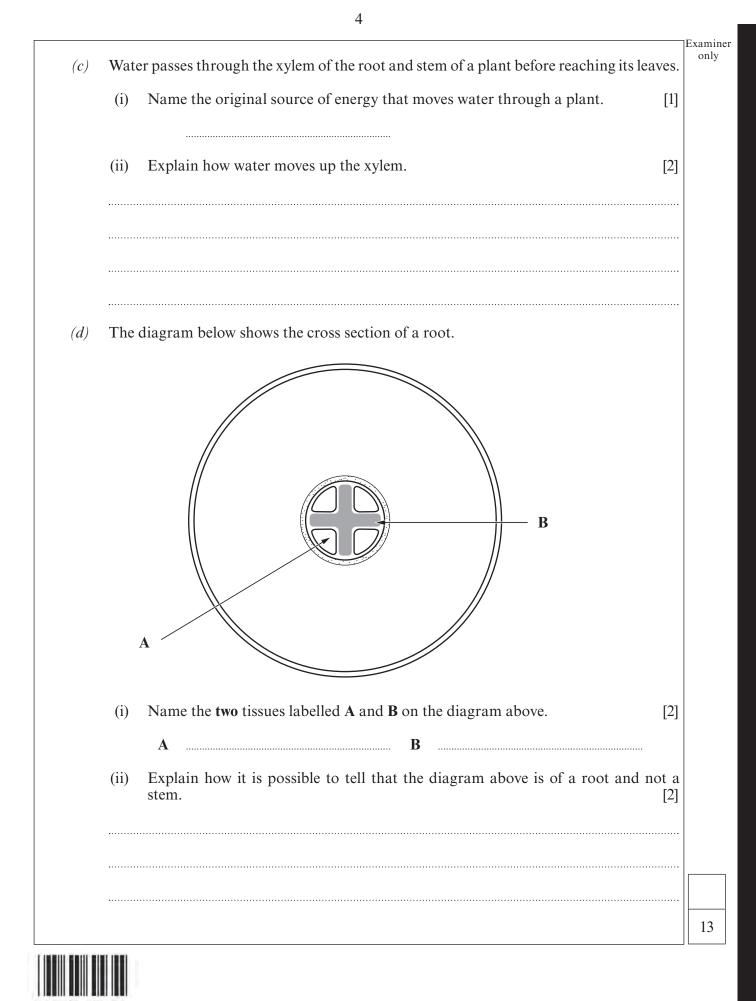
### INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question. You are reminded of the necessity for good English and orderly presentation in your answers. The quality of written communication will affect the awarding of marks.

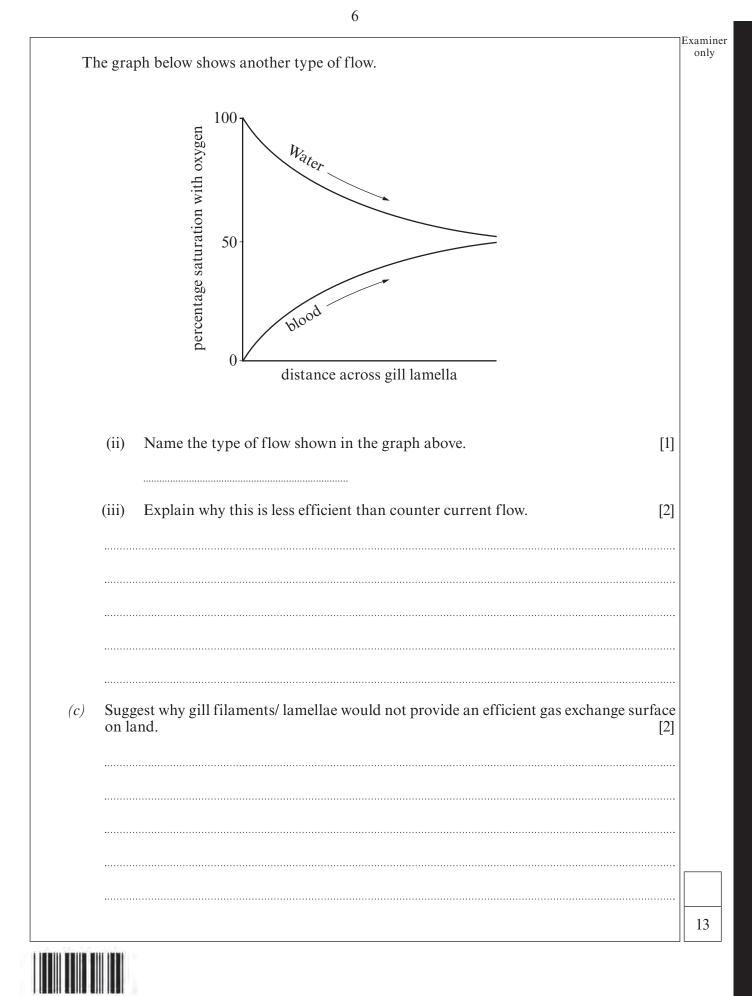


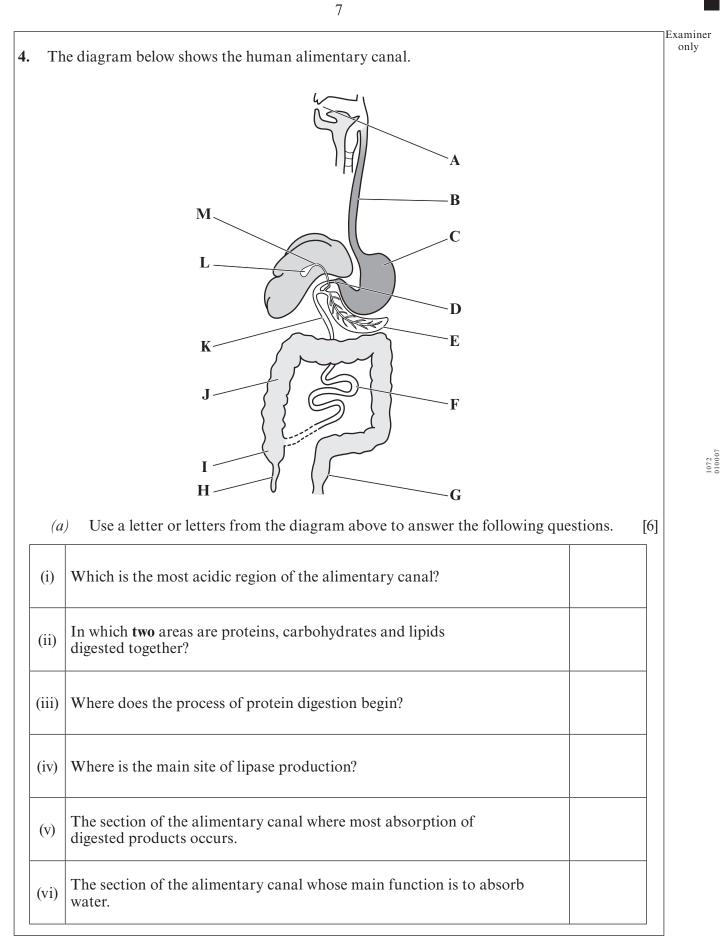
	Kingdom	Phylum	Class	Genus	
		Angiosperm	Dicotyledons	Ranunculus (Buttercup)	
	Animalia		Oligochaetae	Lumbricus (Earthworm)	
	Animalia		Mammalia	Rattus (Rat)	
	Animalia	Arthropoda		Locusta (Locust)	
(i)	A B	wo Kingdoms to whic			[2]
(ii)	A	aracteristic of each o		eature of its Kingdom.	[2]





<i>(a)</i>	Describe and explain the process of <b>inspiration</b> in a mammal.	[4]	C
( <i>b</i> )	(i) Explain how counter current flow works in the gills of bony fish.	[4]	
			I



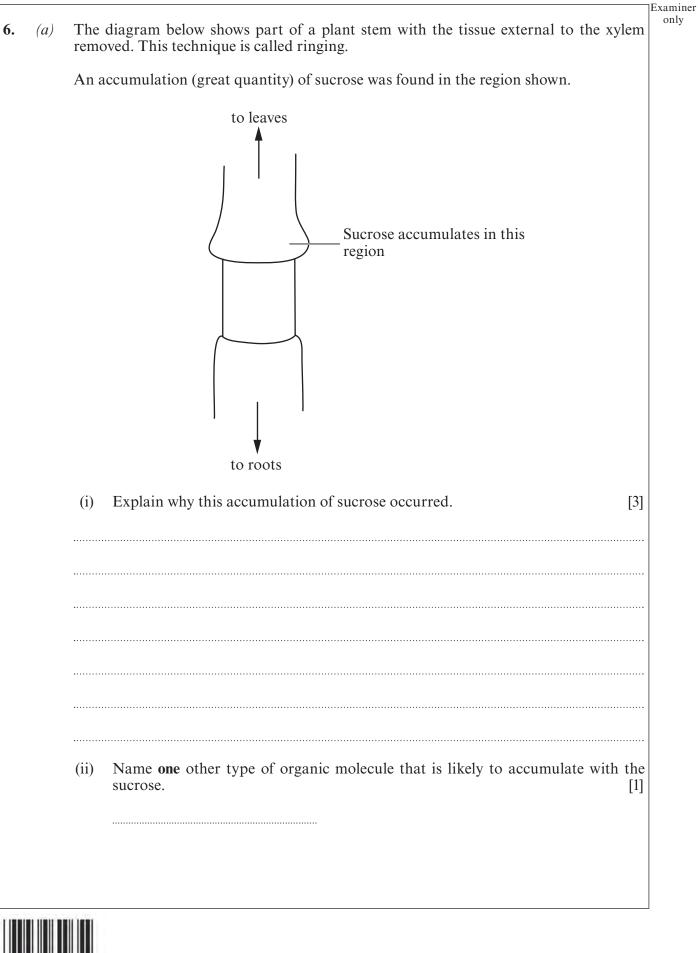




The d	diagra	um below shows the lower jaw of a mammal.	F
		P attacco	
(b)	Use	the information in the diagram above to:	
	(i)	State the name given to describe the mode of nutrition of this mammal.	[1]
	(ii)	Explain how the jaw and teeth shown above are adapted for this mode nutrition.	of [3]
	(iii)	Explain how the <b>gut</b> of this mammal is adapted for digestion.	[2]
	•••••		
	•••••		



The tapeworm, Taenia solium, is a parasite of humans.	only
(a) State what is meant by the term <i>parasite</i> .	[2]
The tapeworm consists of a head with no mouth, followed by a large num segments called proglottids.	nber of thin flat
(b) Describe how the tapeworm is adapted to obtain its nutrients.	[3]
	5
<b>0 9</b> © WJEC CBAC Ltd. (1072-01)	Turn over.



<i>(b)</i>	If the growing points of the shoot of the plant are removed there is a greater accumulation of sucrose.	Examiner only
	Explain why there is a greater accumulation of sucrose. [2]	
(c)	The ring of tissue is removed from the stem. How will this affect the concentration of sucrose <b>below</b> the ring. Explain fully. [3]	
		9
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Either,	(a)	Describe how the reproductive strategies of vertebrates show a gradual
	( )	adaptation to the colonisation of land.
Or	(b)	Describe how arteries and veins are structurally adapted to their functions. [10]



Examiner only ..... •••• ..... .... ..... .... ..... .....



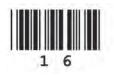
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END OF PAPER	10



Question number	Additional page, if required. Write the question numbers in the left-hand margin.	Examiner only
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