



Rewarding Learning

General Certificate of Secondary Education
2010

Science: Biology

Paper 1
Foundation Tier

[G0901]

FRIDAY 21 MAY, MORNING

StudentBounty.com

71

Candidate Number



TIME

1 hour

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.
Write your answers in the spaces provided in this question paper.
Answer **all fourteen** questions.

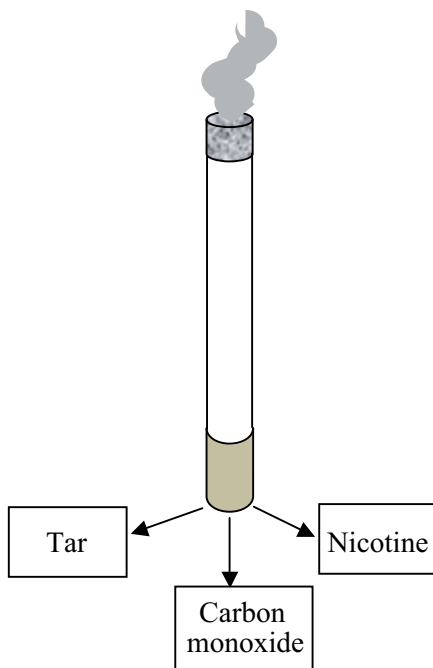
INFORMATION FOR CANDIDATES

The total mark for this paper is 80.
Quality of written communication will be assessed in question **14(b)**
Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	

Total Marks	
-------------	--

2 The diagram shows the main substances produced when smoking.



(a) Complete the table.

Substance	Effect on human body
Tar	
Nicotine	

[2]

(b) Explain why carbon monoxide is harmful to humans.

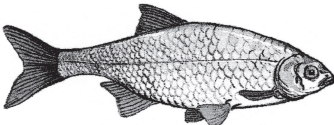
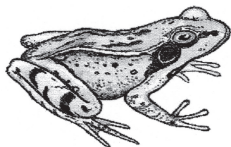
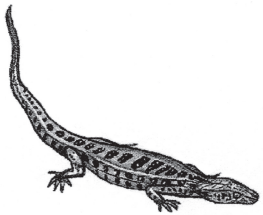


[2]

(c) What is passive smoking?

[1]

Examiner Only	
Marks	Remark

5 The table shows the features of chordate groups.

Chordate group	Characteristics	Example
Fish	<ul style="list-style-type: none"> • Gills, scales and fins • Streamlined body • Live in water • Eggs laid in water 	
Amphibians	<ul style="list-style-type: none"> • Lungs • Smooth, moist skin • Live in water and on land • Eggs laid in water 	
Reptiles	<ul style="list-style-type: none"> • Lungs • Skin covered with tough dry scales • Live in water and on land • Eggs, with rubbery shells, laid on land 	
Birds	<ul style="list-style-type: none"> • Lungs and beak • Feathers and wings • Eggs, with hard shells, laid on land • Constant body temperature 	
Mammals	<ul style="list-style-type: none"> • Body covered with hair or fur • Young develop inside mother • Young feed on mother's milk • Constant body temperature 	

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Use the information in the table to answer the following questions.

(a) Name **two** groups which lay eggs.

_____ and _____ [1]

(b) Name **two** groups which have a constant temperature.

_____ and _____ [1]

Examiner Only	
Marks	Remark

(c) Give **one** characteristic shown by both fish and reptiles.

_____ [1]

(d) Give **one** characteristic found only in mammals.

_____ [1]

(e) Give **one difference** between amphibians and reptiles.

_____ [1]

Examiner Only	
Marks	Remark

7 (a) Complete the table.

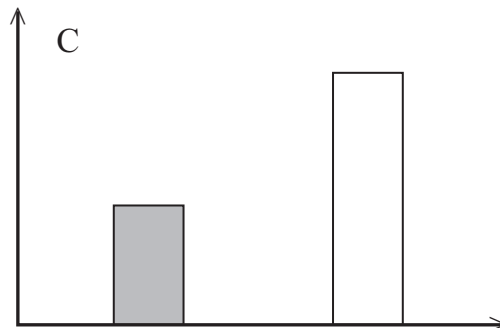
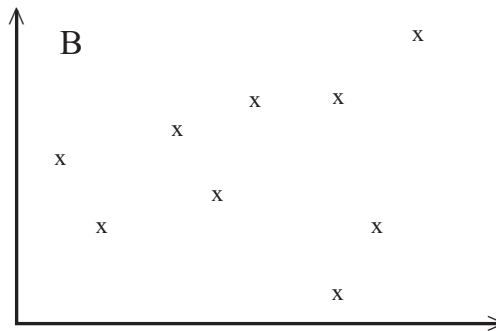
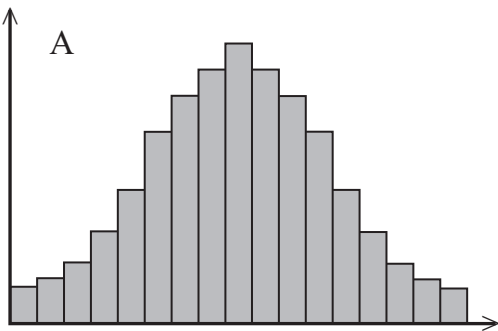
Type of variation	Human characteristic	Cause of the variation
Continuous		Environmental
	Tongue rolling	

[3]

(b) Explain what is meant by continuous variation.

[1]

The diagram shows graphs drawn from data collected during biology experiments.



(c) Which is the graph for

height?

_____ [1]

tongue rolling?

_____ [1]

Examiner Only	
Marks	Remark

9 (a) Complete the table of changes which happen during puberty.

Change during puberty	Boys	Girls
Growth spurt		
	Yes	No
Menstruation		

[1]

[1]

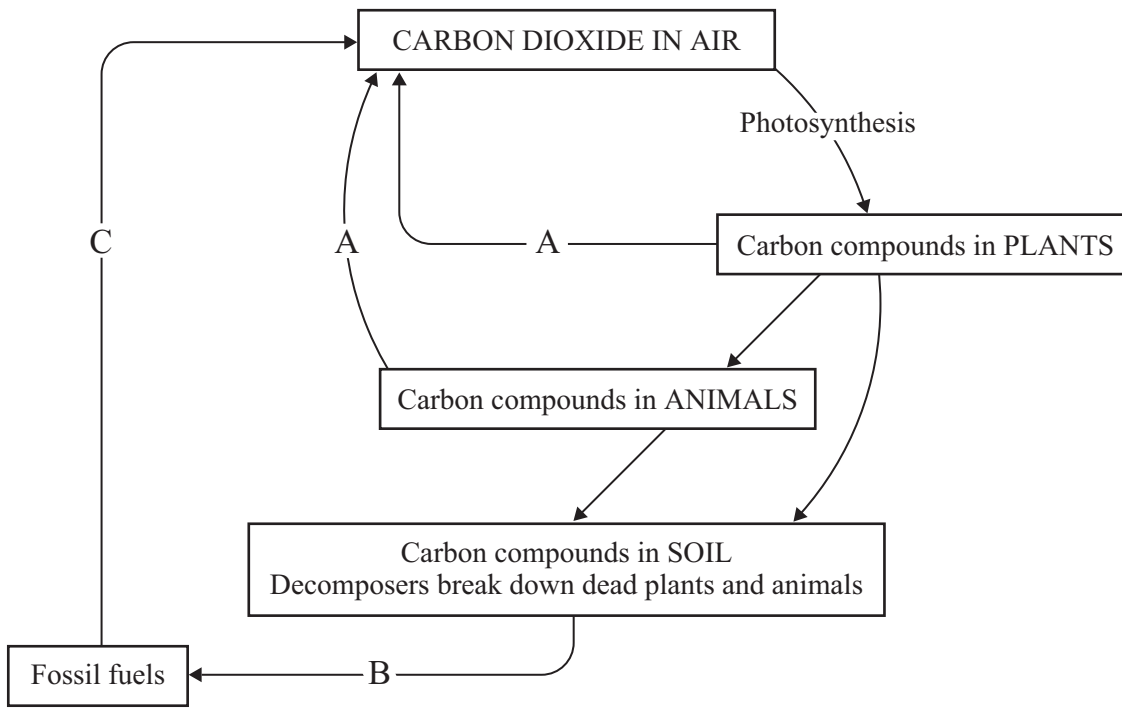
[1]

(b) Name the hormone which causes these changes in girls and describe where it is produced.

_____ [2]

Examiner Only	
Marks	Remark

14 The diagram shows part of the carbon cycle.



(a) Name the processes A, B and C.

A _____ [1]

B _____ [1]

C _____ [1]

(b) Use the diagram to describe how carbon, from the air, is passed through a food chain and back into the air by decomposers. Quality of written communication will be assessed in this question.

_____ [3]

Quality of written communication [2]

Examiner Only	
Marks	Remark

THIS IS THE END OF THE QUESTION PAPER

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