

ADVANCED SUBSIDIARY (AS) General Certificate of Education January 2009

# Geography

Assessment Unit AS 1

assessing

Module 1: Themes in Physical Geography

[ASG11]

#### **MONDAY 26 JANUARY, AFTERNOON**



TIME

1 hour.

# INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Answer all three questions in **Section A** and **any two** questions from **Section B**.

Write your answers to **Section B** on the lined paper at the end of this booklet.

# INFORMATION FOR CANDIDATES

The total mark for this paper is 60.

Quality of written communication will be assessed in **all** questions. 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	
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6	

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Total	
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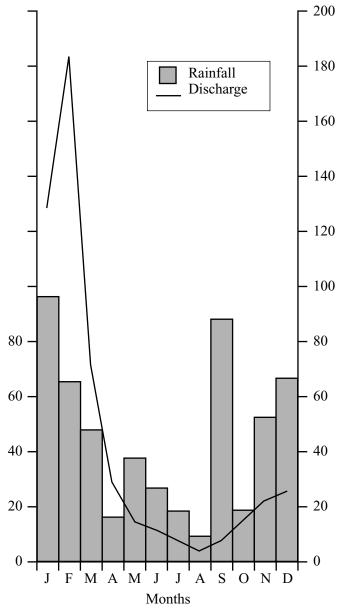
100

(a) Explain why the drainage basin is an open system. 1

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(b) Study Resource 1 showing the average monthly precipitation and discharge for the River Ouse in England in 1995.

### **Resource 1**



 ${\small @\textit{Geography in Focus by Ian Cook published by Pearson Education Ltd ISBN 1873929919}\\$ 

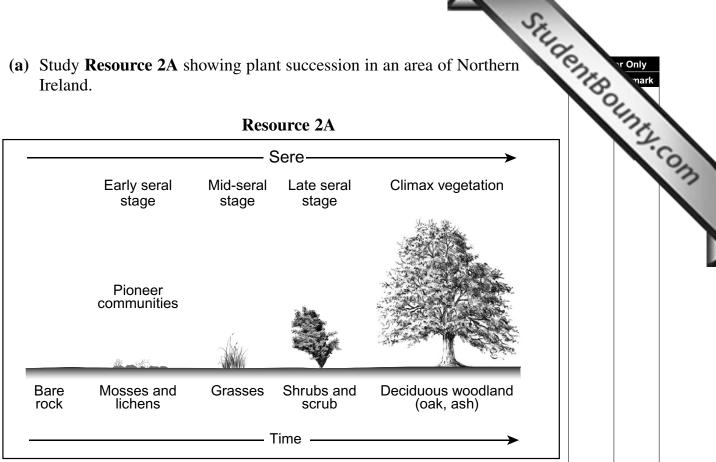
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(c)	With reference to river processes, distinguish between <b>solution</b> and <b>saltation</b> .	Stuc	ENTHOUN	ly ark
				A.COM
		[2]		

(a) Study Resource 2A showing plant succession in an area of Northern Ireland.

2

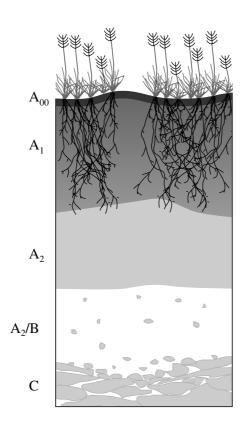
#### **Resource 2A**



Adapted from the article Eco-tourists save forest "jewels" from bulldozers by Lewis Smith  $\ \odot$  The Times 10/2007

With reference to <b>Resource 2A</b> , describe and explain how plant communities develop through a series of changes.	
	[4]

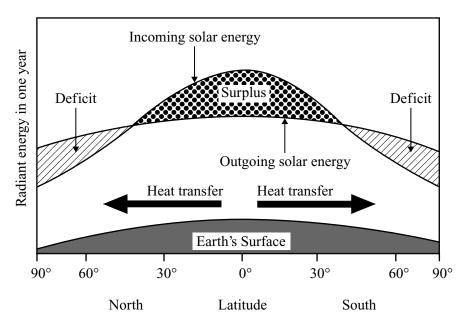
## **Resource 2B**



- (i) On Resource 2B, label the following soil characteristics:
  - direction of soil water movement in spring
  - zone of calcareous nodules

[2]

#### **Resource 3A**



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(i) Using information from Resource 3A, explain what is meant by global energy balance.

\_\_\_\_\_[2]

(ii) Describe how any **one** horizontal heat transfer operates to maintain the global energy balance.

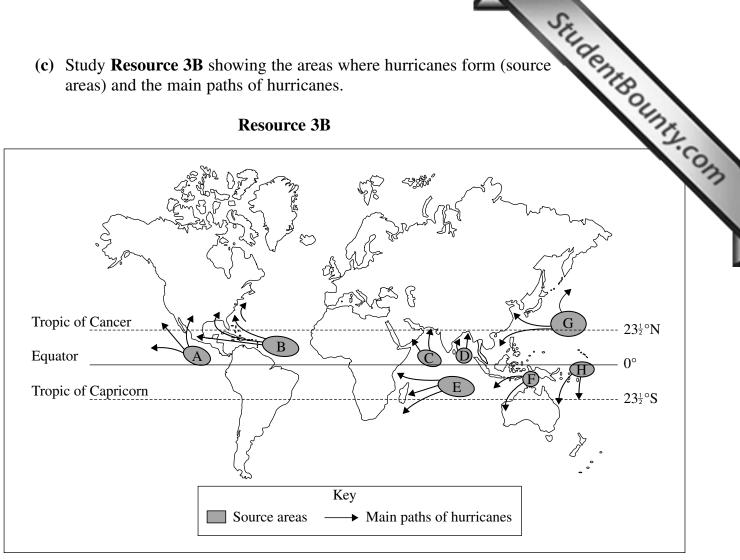
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[2]

<b>(b)</b>	Explain what is meant by the term <b>dew point temperature</b> .	r Only mark	
		CINTY-COM	
		[2]	

(c) Study Resource 3B showing the areas where hurricanes form (source areas) and the main paths of hurricanes.

#### **Resource 3B**



© Reproduced with the permission of Nelson Thornes Ltd from EPICS - Natural Hazards by Simon Ross, ISBN 978 0 7487 3951 6, first published in 1998

(i)	Using information from <b>Resource 3B</b> , describe the areas where hurricanes form.	
		_
		_
		-

	Examiner Only		
	Marks	Remark	
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(iii) Which of the source areas A to H is the origin of the hurricane you have studied?

Name of hurricane \_\_\_\_\_ [no mark]

[1] Source area \_\_\_\_\_

#### **Section B**

Answer any two questions from this section

- Student or national company of the c 4 With reference to your case study of flooding in a large-scale drainage basin or delta, describe the effects of flooding on people, property and the land.
- 5 With reference to the local scale ecosystem you have studied, describe its physical characteristics and explain how they influence its biotic components. [12]

6 Describe and explain how the weather conditions experienced during both winter and summer anticyclones affect human environments. [12]



THIS IS THE END OF THE QUESTION PAPER

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