

ADVANCED SUBSIDIARY (AS) General Certificate of Education 2013

Geography

Assessment Unit AS 1 assessing Physical Geography

[AG111]

FRIDAY 7 JUNE, AFTERNOON



TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

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

Section A: candidates must answer this section.

Section B: answer **all three** questions in this section.

Section C: answer any **two** questions from this section.

You should write your answers in the spaces provided in this question paper.

At the end of the examination your summary of fieldwork and table of data should be attached securely to this paper using the treasury tag supplied.

INFORMATION FOR CANDIDATES

The total mark for this paper is 90.

Quality of written communication will be assessed in all questions.

Figures in brackets printed down the right-hand side of the 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		

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Total	
Marks	

(a) Study Resource 1A below, which displays a list of tasks compiled by a geographer when planning a field study. Select two from the list and discuss how they were completed as part of your fieldwork.

Resource 1A



Source: Principal Examiner

____ [6]

Title of Graph _

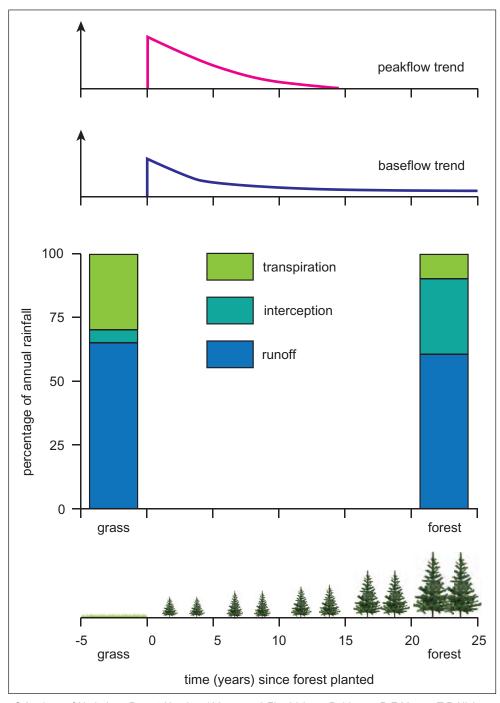
TON, mark

Section B

Answer all three questions in this section.

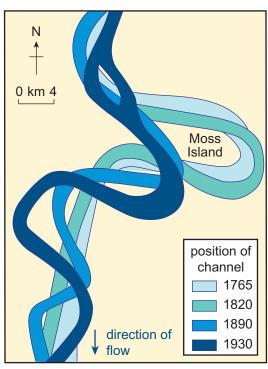
Student Bounty.com 2 (a) Study Resource 2A, which shows the impact of land-use change in the River Co. drainage basin, north east of Carlisle in northern England. In this upland area, rough grassland was replaced with plantation forestry.

Resource 2A



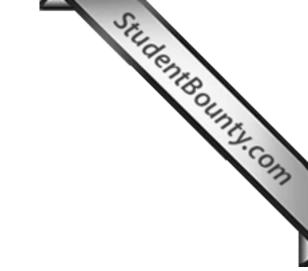
© Institute of Hydrology Report Number 133 page 56 Fig. 26 by m Robinson, R E Moore, T R Nisbet & J R Blackie, 1998, published by the Centre for Ecology and Hydrology

Resource 2B



Adapted from: © http://projects.cie.org.uk/banglao/textbook/mississippimeanders/files/drainage.htm Reproduced by permission of the Cambridge International Examinations

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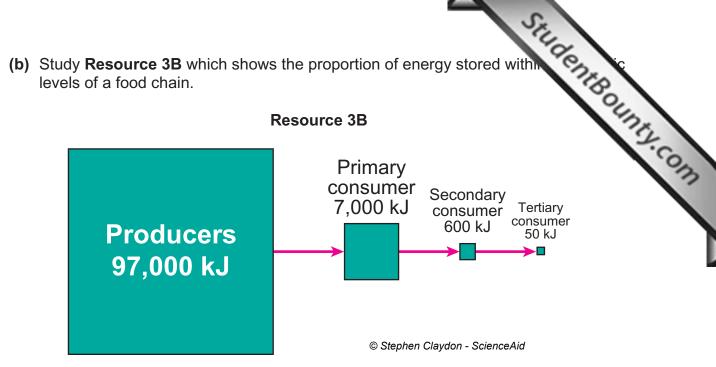


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(Questions continue overleaf)

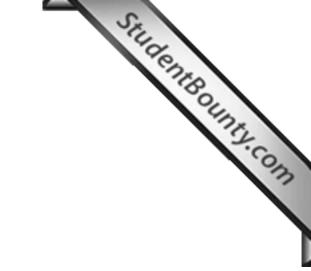
[6]

	3	13		
pre pro	dy Resource 3A , on page 11, which shows growing season cipitation and some of the soil conservation methods used in three vinces of the Canadian Prairies, a mid-latitude grassland system.	den	HOULD PART	COM
(i)	Which province receives the highest amount of growing season precipitation?		1	COM
	[1]			
(ii)	Compare the popularity of the soil conservation methods selected by farmers in any one province and explain why management of this ecosystem is necessary.			L



Describe the transfer of energy in this food chain and explain how energy is lost from the system.			
ſ			

Examiner Only				
Marks	Remark			

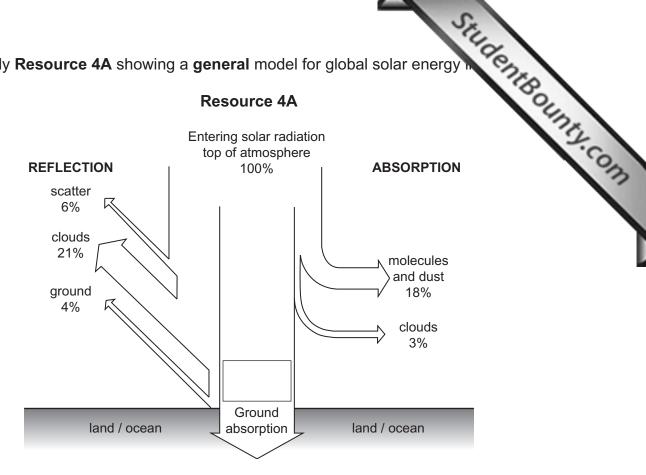


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(Questions continue overleaf)

(a) Study Resource 4A showing a general model for global solar energy

Resource 4A



© Modern Physical Geography – Fourth edition by A H Strahler and A N Strahler, published by John Wiley & Sons, 1992. ISBN 0471533920. Reproduced by permission of Mr A H Strahler.

(i)	Complete the box in Resource 4A to show the percentage of	
	energy available for absorption at the ground surface.	[1]

(ii)	Outline one reason why the percentage of energy received at the ground surface may vary from one place to another.

Examiner Only			
Marks	Remark		

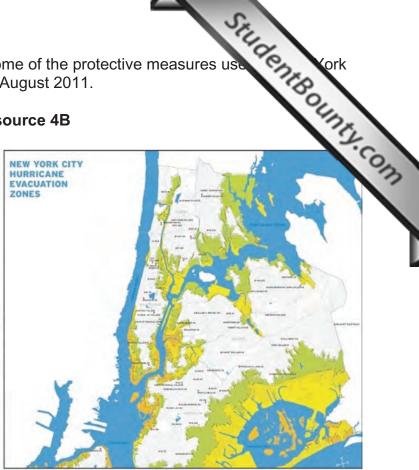
(iii)	Distinguish between horizontal and vertical heat transfers in relation to global energy balance.	Stude	r Only nark	
			5.0	OM
		[3]		

(b) Study Resource 4B which shows some of the protective measures us in preparation for Hurricane Irene in August 2011.

Resource 4B



© Mario Tama / Getty Images



"2011 New York City Evacuation Zones Map" ©2011. New York City Office of Emergency Management. All rights reserved. "2011 New York City Evacuation Zones Map" used with



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Section C

Answer any two questions in this section.

- Describe and explain the physical and human causes of flooding in a large scale drainage basin or its delta.
- 6 Describe and explain the biotic and abiotic changes which occur in your small or regional scale study of vegetation succession. [12]
- 7 Explain the formation of a mid-latitude frontal depression and use your case study to analyse its impact on people. [12]

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THIS IS THE END OF THE QUESTION PAPER

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