

New Specification



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ADVANCED SUBSIDIARY (AS)  
General Certificate of Education  
2010

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71	
Candidate Number	
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**Geography**  
**Assessment Unit AS 1**  
*assessing*  
**Physical Geography**



AG111

[AG111]

TUESDAY 1 JUNE, MORNING

**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.

You should write your answers for Section A and Section B in the spaces provided in this question paper.

Section C: answer any **two** questions from this section. Write your answers to Section C on the lined paper at the end of this booklet.

**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.

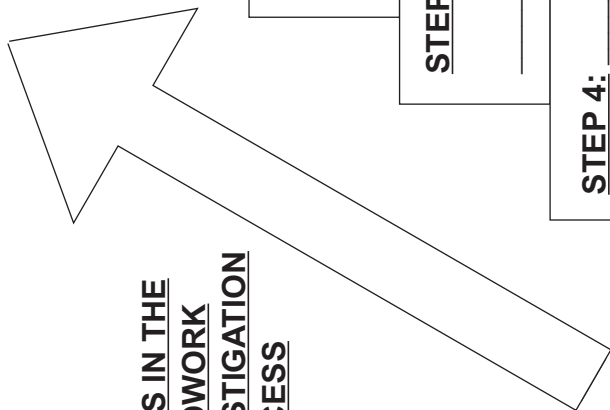
Figures in brackets printed down the right-hand side of the pages indicate the marks awarded to each question or part question.

For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	

<b>Total Marks</b>	
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**STEPS IN THE  
FIELDWORK  
INVESTIGATION  
PROCESS**



**STEP 7: Geographical conclusion** – The main findings of the investigation are summarised in relation to the aim and geographical reasons are proposed.

**STEP 6:** \_\_\_\_\_  
\_\_\_\_\_

**STEP 5:** \_\_\_\_\_  
\_\_\_\_\_

**STEP 4:** \_\_\_\_\_  
\_\_\_\_\_

**STEP 3: Data collection** – this involves the collection and recording of information (data) from primary and secondary sources relevant to the aim of the study.

**STEP 2: Planning** – Pre-fieldwork preparation is essential for safe and reliable data collection at a suitable site.

**STEP 1: Aim/Hypothesis** – this clarifies the precise purpose of the investigation or research.

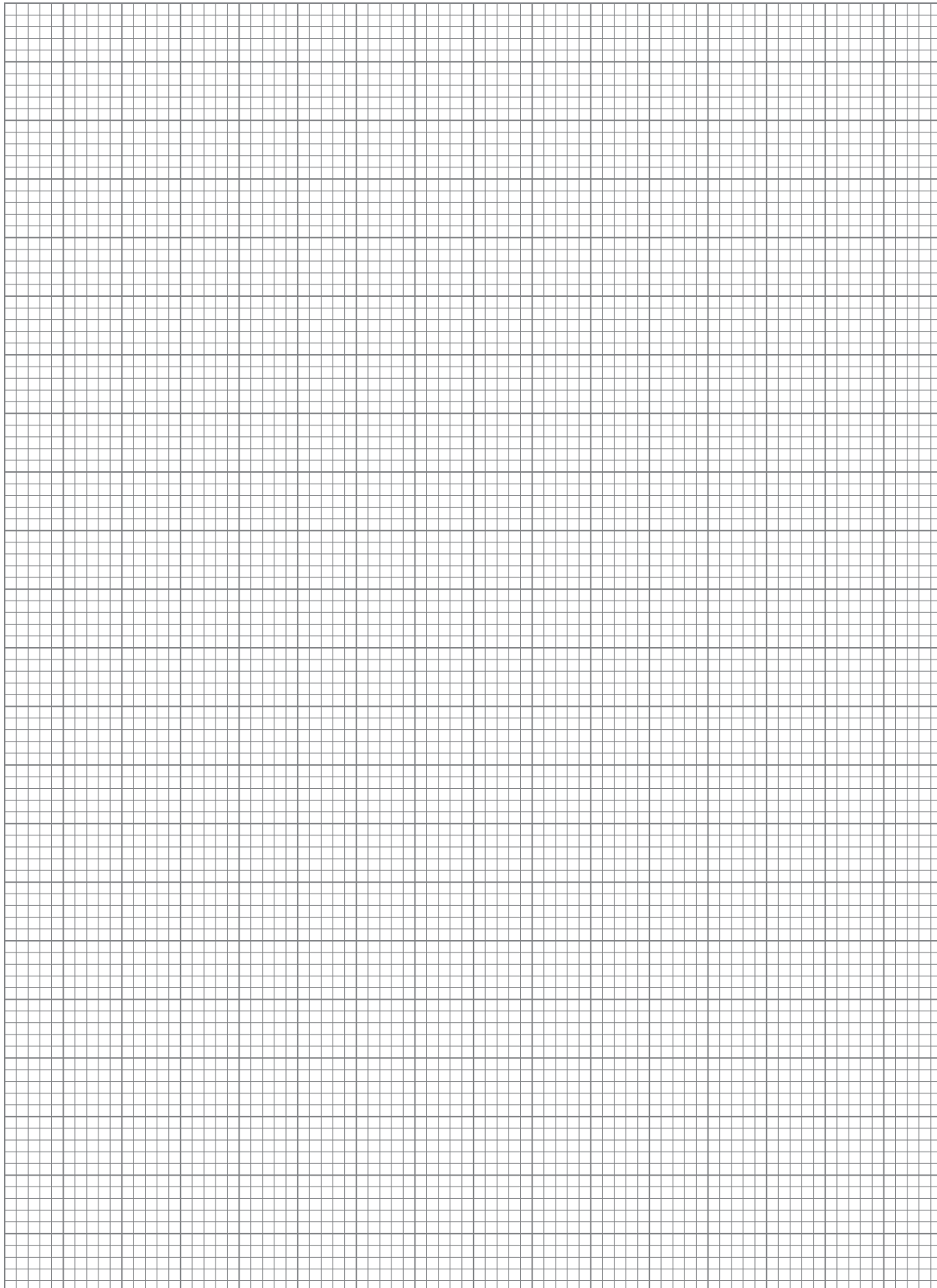


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**(Question 1 continues overleaf)**

- (c) (i) Using the graph paper below, select an appropriate technique to present some or all of the data from your table. Your graph **must** be relevant to your aim/hypothesis. [7]

Title of Graph: \_\_\_\_\_



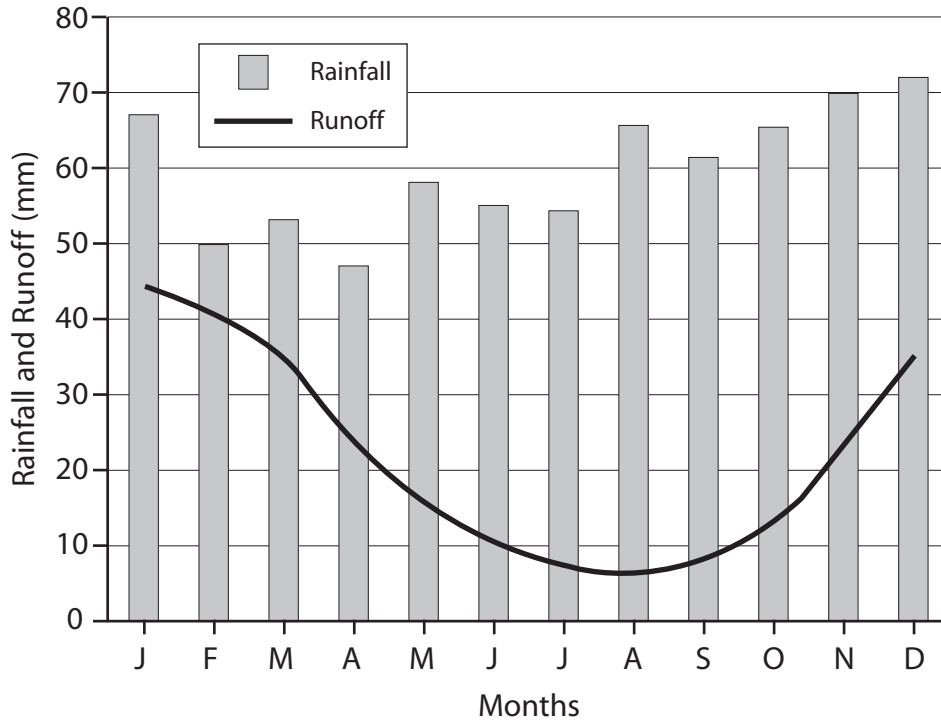


Section B

Answer all three questions in this section.

- 2 Study Resource 2 which shows the annual rainfall and runoff for the River Thames at Abingdon.

Resource 2



Source: data from Institute of hydrology (1996)

- (a) (i) In which months is rainfall at its highest and lowest? State the rainfall amount.

Highest rainfall is in \_\_\_\_\_ at \_\_\_\_\_ mm

Lowest rainfall is in \_\_\_\_\_ at \_\_\_\_\_ mm [2]



(ii) Describe and explain the changes that occur in runoff throughout the year.

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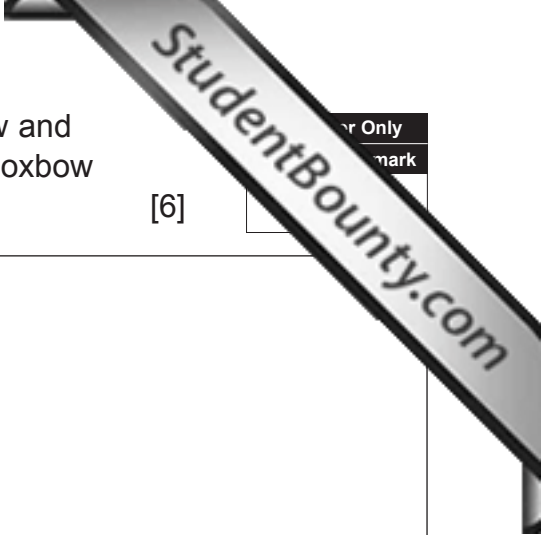
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[4]

(b) Draw an annotated diagram or diagrams in the box below and use this to help you to explain the formation of **either** an oxbow lake **or** levees.

[6]

For Only  
mark



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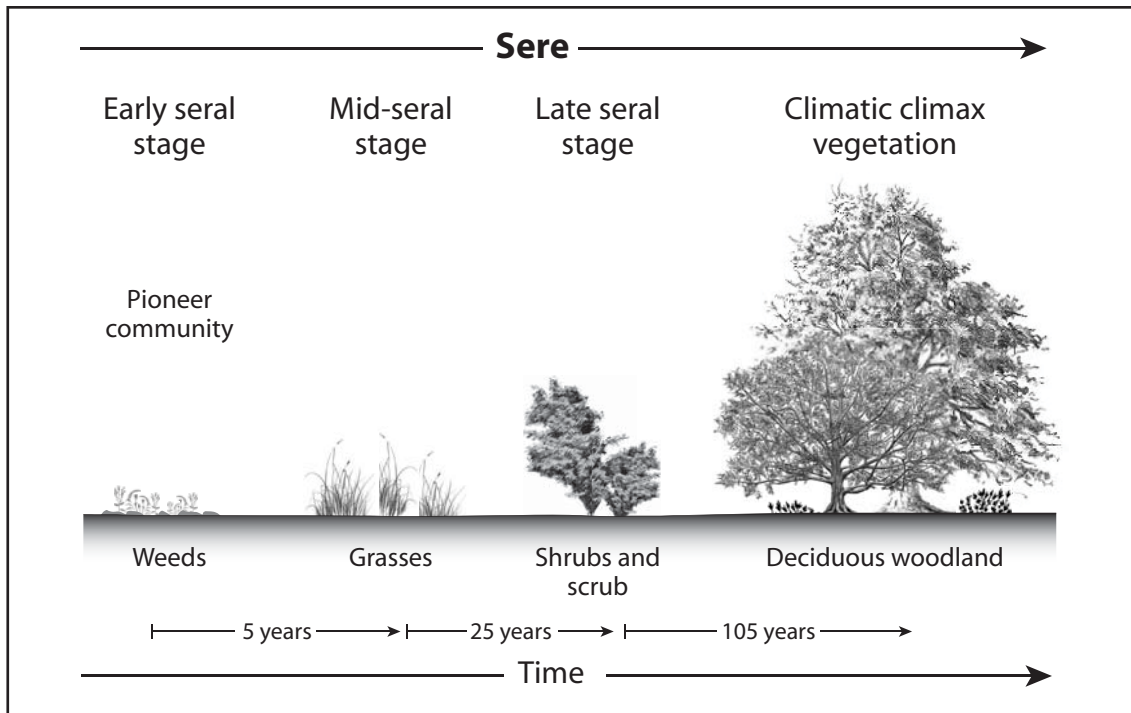
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**(Questions continue overleaf)**

- 3 Study **Resource 3A** which shows plant succession in an abandoned field in a Western European climate, e.g. Ireland.

**Resource 3A**



- (a) (i) State what is meant by the term **climatic climax vegetation** and explain **one** way in which it can be replaced by a plagioclimax vegetation.

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[4]

(ii) For a plant succession you have studied, describe **two** ways in which the pioneer community in the first seral stage differs from the climatic climax vegetation.

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[4]

(b) Study **Resource 3B** which lists some characteristics of natural mid-latitude grasslands.

**Resource 3B**

1. Soil surface composed of a dense root mat present throughout the year.
2. Root mat retains moisture.
3. Soil particles bound by roots.
4. Little loss of nutrients by leaching.
5. Soil rich in organic matter.
6. Limited soil loss by wind erosion.

Explain how the monoculture of annual cereals would change **any two** of the characteristics in **Resource 3B**.

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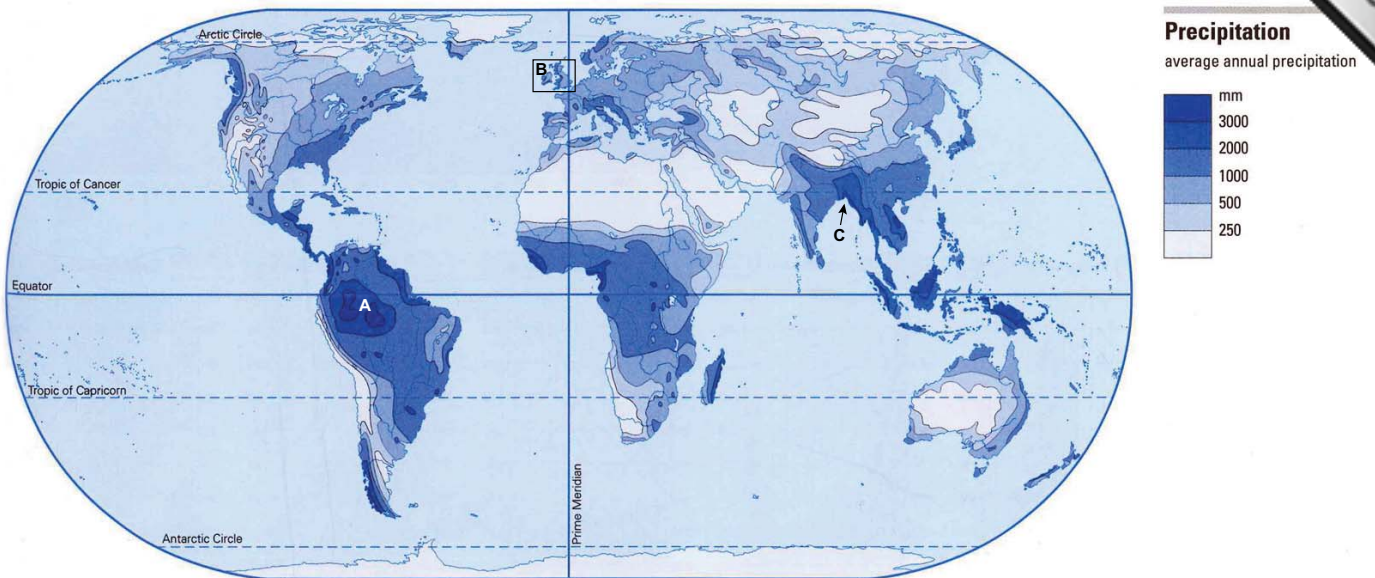
[4]

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**(Questions continue overleaf)**

4 Study Resource 4 which shows annual world precipitation totals.

Resource 4



Map from Oxford Student Atlas edited by Patrick Weigand (OUP, 2005), copyright © Oxford University Press 2002, reprinted by permission of Oxford University Press

(a) (i) Describe the pattern of world precipitation shown on Resource 4.

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[4]

Examiner Only	
Marks	Remark



























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