OXFORD AQA

INTERNATIONAL QUALIFICATIONS

Please write clearly in block capitals.

Centre number | | | | | | Candidate number | | | | |

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I declare this is my own work.

INTERNATIONAL A-LEVEL

GEOGRAPHY

Paper 5 Fieldwork and Geographical Skills

Friday 21 June 2024 07:00 GMT Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:
- a ruler with millimetre measurements
- a calculator, which you are expected to use where appropriate.

Instructions
- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do **not** write outside the box around each page or on blank pages.
- All working must be shown.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information
- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.
- You may use a bilingual dictionary for this exam.
- You may **not** use an English dictionary.

For Examiner's Use	
Question	Mark
1	
2	
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TOTAL	

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Section A

Answer **all** questions in the spaces provided.

You must answer **all** questions in **Section A**.

0 1 **Figure 1** is a field sketch drawn by a student investigating features of a river valley in an upland area of the United Kingdom.

Outline reasons for using a field sketch in a geographical investigation.

[4 marks]

Figure 1

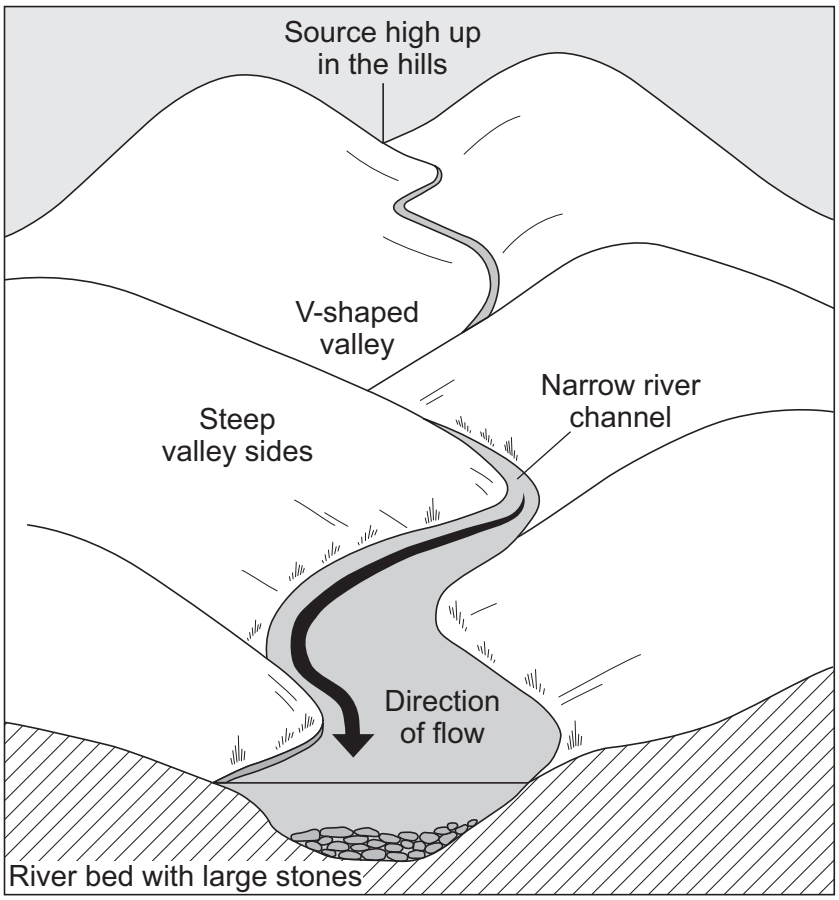

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Figure 2

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0 2 Dubai is a city in the United Arab Emirates.

Figure 2, on page 4, is a map with proportional desire lines representing countries with high numbers of tourist arrivals to Dubai in January 2023 (to the nearest 10 000).

Origin country	Tourist arrivals
Russia	120 000

0 2 . 1 Complete **Figure 2** by adding a proportional desire line to show the data for **Russia**.

[2 marks]

0 2 . 2 Describe the information shown in the completed **Figure 2**.

[3 marks]

Question 2 continues on the next page

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0 2 . 3 Tourists visiting Dubai provided information about their visits, including their opinions about the city, using information and communication technology (ICT).

The use of ICT for innovative sources of data (such as crowd sourcing and 'big data') is increasingly common.

Explain why using innovative sources is an effective way of gathering geographical data.

[6 marks]

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0 3 A group of A-level Geography students completed fieldwork on sand dunes in the Chumphon province of southern Thailand.

They were investigating the relationship between distance inland, soil pH (a measure of how acid or alkaline the soil is), and vegetation diversity.

Figure 3 shows part of the sand dune area they surveyed.

Figure 3

The students decided to use a systematic sampling strategy in their fieldwork.

Moving inland from the High Water Mark to a point 200 m inland, they measured the gradient at intervals of 5 metres.

Every 20 metres, they measured the pH of the sand and soil using a digital probe.

At 50 metre intervals, they recorded the different plants observed within a 1 m^2 area within a quadrat. (A quadrat is a square wire frame.)

0 3 . 1 Evaluate the sampling strategy that the students used to collect data in this investigation.

[6 marks]

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0 3 . 2 With reference to **Figure 3**, explain why it is important to consider the ethical aspects of fieldwork in natural environments.

[6 marks]

Question 3 continues on the next page

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Table 1 shows the results from measuring the soil pH.

Table 1

Distance from High Water Mark (metres)	Soil pH
0	7.6
20	7.6
40	7.5
60	7.3
80	7.0
100	7.1
120	7.0
140	6.8
160	7.0
180	6.7
200	6.8

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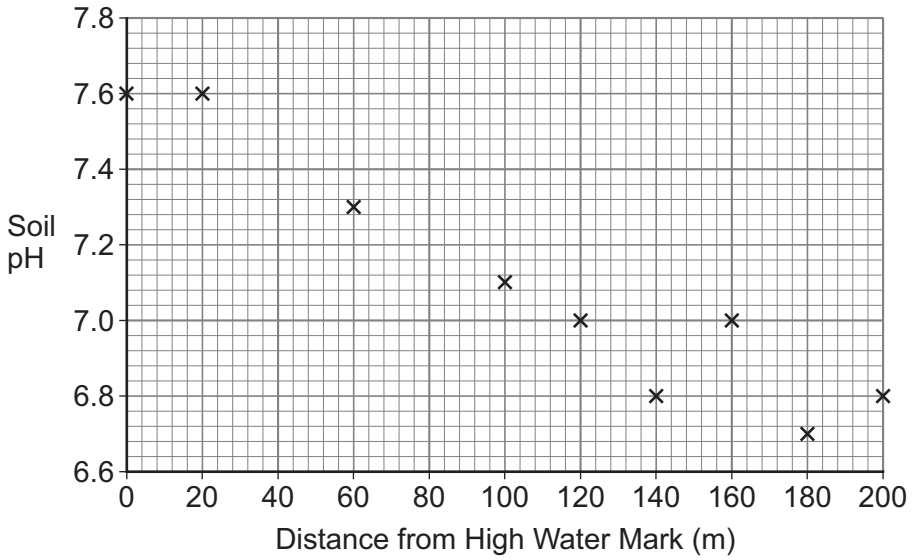
Figure 4 is a scatter graph showing the soil pH data plotted against distance from the High Water Mark.

Figure 4



0 3 . 3 Use the data in **Table 1** to complete **Figure 4** by adding the data for 40 m and 80 m.

[2 marks]

0 3 . 4 Draw a line of best fit onto **Figure 4**.

[1 mark]

Question 3 continues on the next page

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Table 2 shows data for the number of each plant species identified and counted in the sampled quadrats.

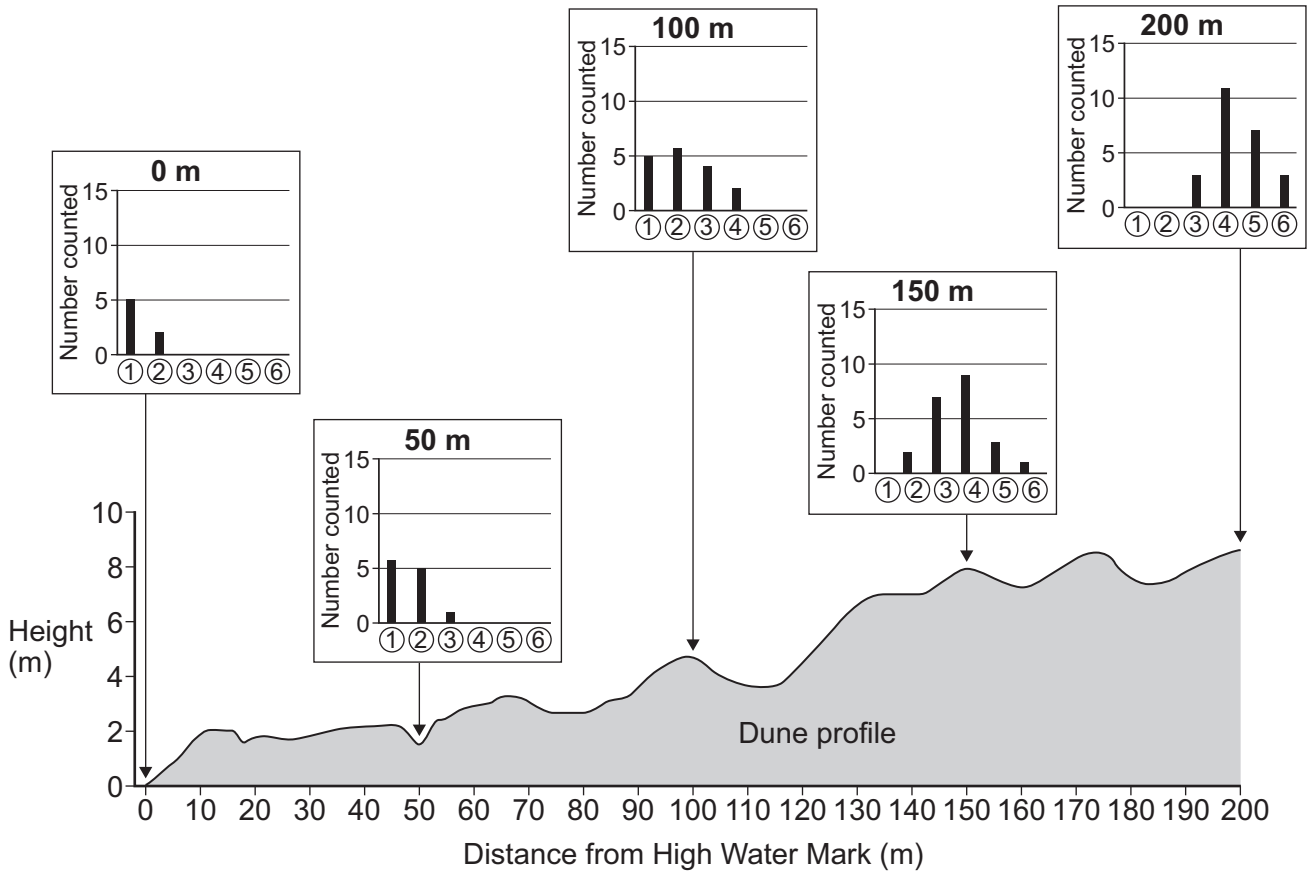
Table 2

Distance from High Water Mark (metres)	Number of each plant species counted					
	Beach Grass (species 1)	Beach Glory (species 2)	Sea Holly (species 3)	Sand Sedge (species 4)	Harebell (species 5)	Sea Apple (species 6)
0	5	2	0	0	0	0
50	6	5	1	0	0	0
100	5	6	4	2	0	0
150	0	2	7	9	3	1
200	0	0	3	11	7	3

Figure 5 is a profile of the sand dunes. It is drawn using the gradient and distance data.

Located bar charts have been added to show the number of the different plant species recorded at 50 m intervals.

Figure 5 Dune profile with located bar graphs



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0 3 . 5 Analyse the results presented in **Table 1**, **Table 2**, **Figure 4** and **Figure 5**.

[6 marks]

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0 3 . 6 The students used the Spearman's rank correlation coefficient to test this hypothesis:

'Soil pH decreases with distance inland from the High Water Mark'.

The null hypothesis (H_0) states 'there is no significant relationship between soil pH and distance inland from the High Water Mark'.

Outline how the Spearman's rank correlation coefficient would be used to test the null hypothesis.

Assess how useful this method would be in a geographical investigation.

[9 marks]

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END OF SECTION A

Turn over for Section B

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Section B

Answer **all** questions in the spaces provided.

You must answer **all** questions in **Section B**.

0 4 You have experienced geography fieldwork as part of your course. Use this experience to answer **Questions 4.1** and **4.2**.

State the aim(s) of your fieldwork investigation.

0 4 . 1 Describe **one** method of data collection used in your fieldwork investigation.

[6 marks]

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0 4 . 2 To what extent did the results you obtained allow you to reach a valid conclusion in relation to the aim(s) of your investigation?

[9 marks]

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