OXFORD

INTERNATIONAL
AQA EXAMINATIONS

Please write clearly in block capitals.

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

Surname _____

Forename(s) _____

Candidate signature _____

I declare this is my own work.

INTERNATIONAL A-LEVEL

GEOGRAPHY

Paper 5 Fieldwork and Geographical Skills

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	
3	
4	
5	
TOTAL	

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Section A

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

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

0 1 Quantitative and qualitative data are used in geographical investigations.

Using examples, explain the difference between quantitative and qualitative data.

[4 marks]

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4

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0 2 . 1 Describe the main characteristics of stratified sampling (also known as structured sampling).

[3 marks]

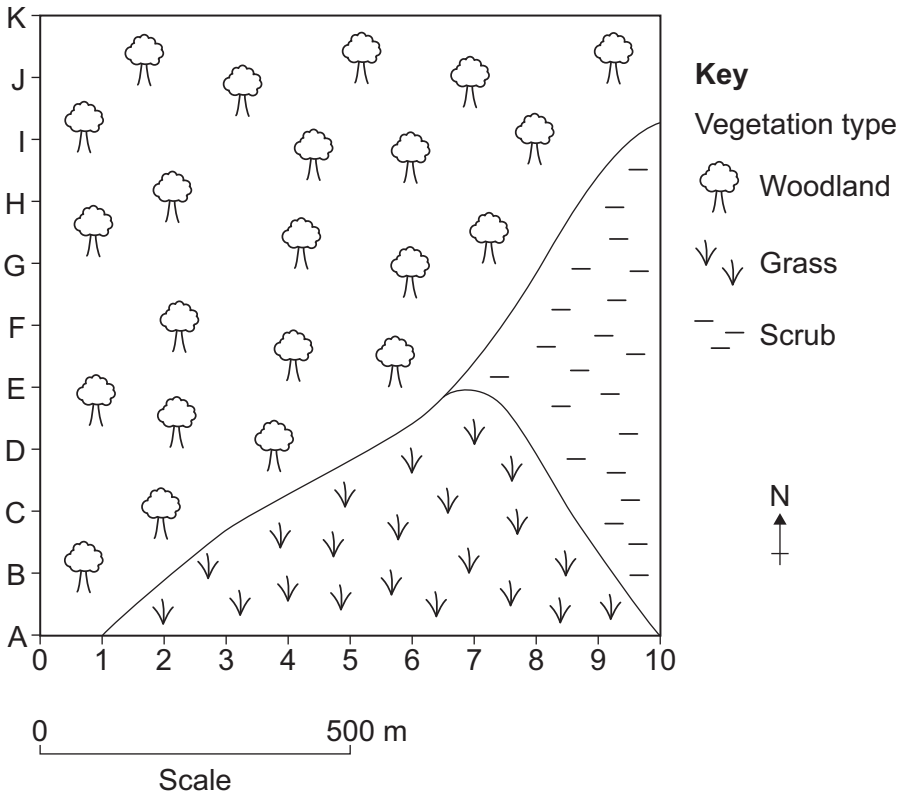
Extra space

Question 2 continues on the next page

Figure 1 is a sketch map of an area to be used by students in a geographical investigation.

The students are trying to find out if infiltration rate is influenced by vegetation type.

Figure 1



Woodland covers 60% of the area.

Grass covers 20% of the area.

Scrub covers 20% of the area. (Scrub vegetation is defined as wooded stemmed plants branching at or near ground level.)

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The students wanted to measure infiltration rates at 20 locations in the area covered by the map shown in **Figure 1**.

0 2 . 2 Describe a suitable sampling strategy you would use to select these 20 locations.

[6 marks]

Extra space

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0 3 A Geography student obtained monthly rainfall totals from a weather station in Singapore.

They aimed to investigate how the rainfall varied throughout the year and to analyse if there had been any change since 1988.

The data for 2018 is shown in **Table 1** below, and a standard deviation calculation has been started.

Table 1

Month	**Rainfall total (x) in mm**	$x - \bar{x}$	$(x - x)^2$
January	343	204.5	41 820.25
February	17	−121.5	14 762.25
March	44	−94.5	8 930.25
April	57	−81.5	6 642.25
May	135	−3.5	12.25
June	186	47.5	2 256.25
July	143	4.5	
August	122	−16.5	272.25
September	144		
October	234	95.5	9 120.25
November	102	−36.5	1 332.25
December	135	−3.5	12.25
	$\sum x = 1\,662$		$\sum (x - x)^2 = 85\,211$
	$\bar{x} = 138.5$		

Key

σ = Standard deviation

x = Individual value

$\bar{x}$ = Mean

n = Number in the sample

$\sum$ = Sum of

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0 3 . 1 Complete **Table 1** and use the standard deviation formula below to complete the standard deviation calculation.

You must show your working.

Give the answer to **2 decimal places**.

Standard deviation formula:

$$\sigma = \sqrt{\frac{\sum (x - \bar{x})^2}{n}}$$

[6 marks]

$\sigma =$ _____

Question 3 continues on the next page

Table 2 shows some comparative rainfall data for Singapore in 1988.

Table 2

Mean (mm)	Range (mm)	Standard deviation (mm)
214.9	370	94.74

0 3 . 2 Interpret the rainfall data for 1988 and 2018 with reference to **Table 1**, **Table 2** and your calculated answer to **Question 03.1**.

[6 marks]

Extra space

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ANSWER IN THE SPACES PROVIDED

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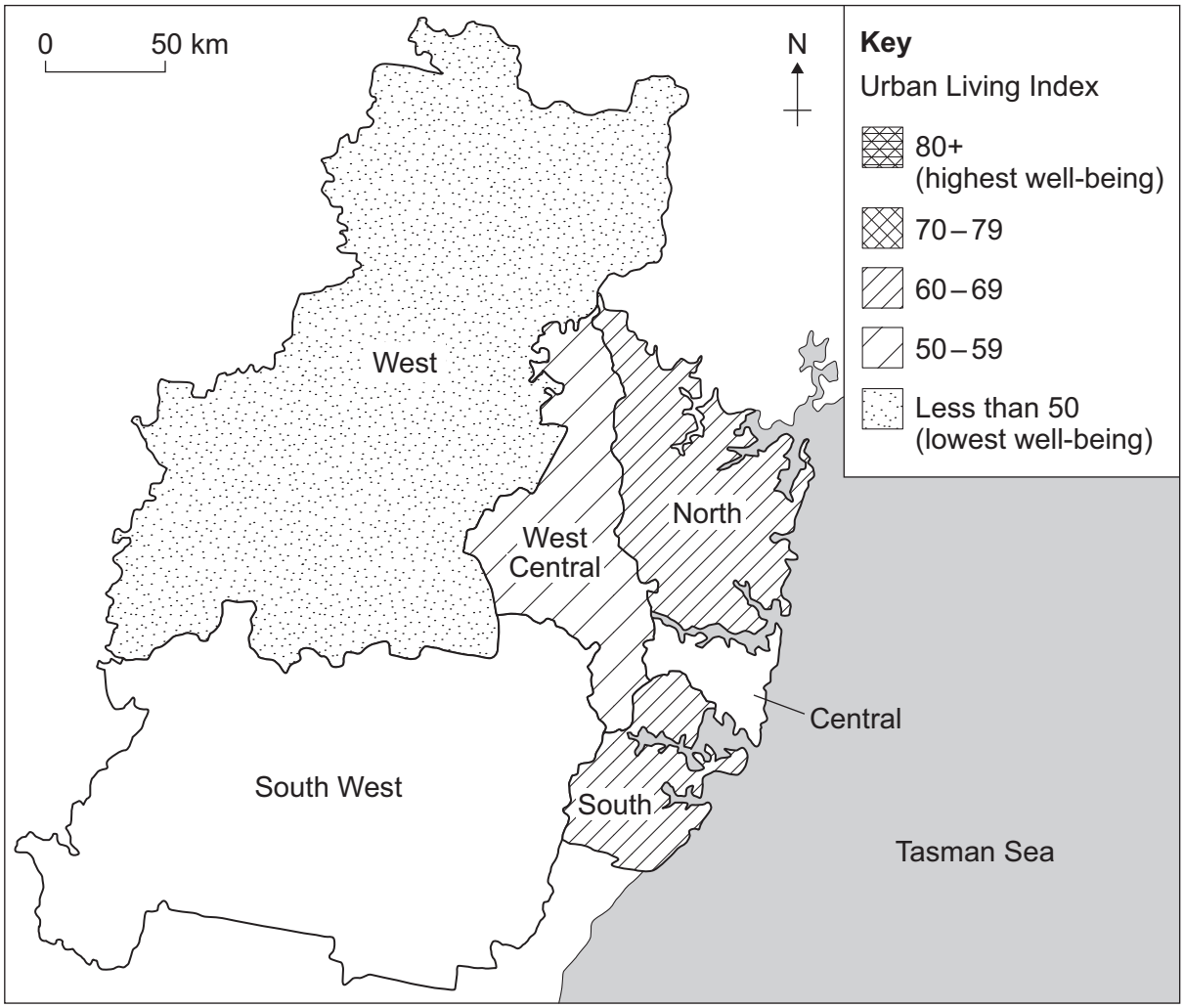
0 4 **Figure 2** shows an outline map of the six districts of Sydney, Australia.

The map has been partially completed to show the 'Urban Living Index' for selected districts. This is a measure of the well-being of people in Sydney based upon a range of socio-economic and environmental factors. The higher the index number, the greater the level of well-being experienced.

Figure 2



0 4 . 1 Complete **Figure 2** using the data for Central and South West districts shown in the table below.

District	Urban Living Index
Central	73
South West	48

[2 marks]

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0 4 . 2 Describe the pattern now shown in **Figure 2**.

[3 marks]

Extra space

0 4 . 3 Some students are interested in finding out more about the link between environmental factors and the level of well-being in an urban area.

State and justify **two** environmental factors that students could use to investigate well-being in an urban area.

[6 marks]

Question 4 continues on the next page

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0 4 . 4 Critically assess the usefulness of choropleth maps such as that shown in **Figure 2**, on page 10, to present information.

[9 marks]

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20

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 5 You have experienced geography fieldwork as part of your course. Use this experience to answer **Questions 05.1** and **05.2**.

State the aim(s) of your fieldwork investigation.

0 5 . 1 Describe and justify **one** primary data collection method used in your investigation.

[6 marks]

Extra space

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0 5 . 2 Evaluate the suitability of your chosen location and how this helped you meet the aim(s) of your investigation.

[9 marks]

Extra space

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END OF QUESTIONS

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