From summer 2024, the total examination time has changed.

If you intend to use this with students allow them 1 hour 30 minutes.

Please write clearly in block capitals.

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

Surname _____

Forename(s) _____

Candidate signature _____

GCSE
GEOGRAPHY

Paper 3 Geographical applications

Monday 11 June 2018 Afternoon Time allowed: 1 hour 15 minutes

Materials

For this paper you must have:
- the Pre-release resources booklet (enclosed)
- the OS key insert (enclosed)
- a pencil
- a rubber
- a ruler.

You may use a calculator.

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.
- 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 total number of marks available for this paper is 76.
- Spelling, punctuation, grammar and specialist terminology will be assessed in Questions **03.2** and **05.4**.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
TOTAL	

Do not write outside the box

For the multiple-choice questions, completely fill in the circle alongside the appropriate answer.

CORRECT METHOD ⬬ WRONG METHODS ⊗ ⦿ ≋ ✓

If you want to change your answer you must cross out your original answer as shown. ⬬

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown. ⬬

Section A Issue evaluation

Answer **all** questions in this section.

Study **Figure 1**, 'Water in the United Kingdom' in the resources booklet.

0 1 . 1 Which of the following cities has the highest annual rainfall?

Shade **one** circle only.

A Bristol ⬭

B Glasgow ⬭

C Liverpool ⬭

D London ⬭

[1 mark]

0 1 . 2 Give **two** effects of water stress.

[2 marks]

1 _____

_____

2 _____

_____

Do not write outside the box

0 1 . 3 'Water transfer schemes will be essential to meet the growing demand for water in the UK.'

Do you agree? Explain your answer.

[6 marks]

Extra space

Question 1 continues on the next page

Do not write outside the box

0 1 . 4 Suggest why water companies need 25-year plans.

[6 marks]

Extra space

15

Do not write outside the box

Study **Figure 2**, 'Managing water demand in Oxfordshire' in the resources booklet.

0 2 . 1 What is the approximate area of the proposed reservoir as shown on the Ordnance Survey (OS) map extract?

Shade **one** circle only.

A 3 km^2

B 6 km^2

C 9 km^2

D 12 km^2

[1 mark]

0 2 . 2 Describe the relief of the land in the area of the proposed reservoir.

[2 marks]

0 2 . 3 Give **one** reason why clay is a suitable material on which to build a reservoir.

[1 mark]

4

Turn over for the next question

Do not write outside the box

Study **Figure 2**, 'Managing water demand in Oxfordshire' and **Figure 3**, 'A new reservoir for Oxfordshire?' in the resources booklet.

0 3 . 1 'The physical environment provides opportunities for a range of socio-economic activities.' Use **Figure 2** and **Figure 3** to discuss this statement.

[6 marks]

Extra space

Do not write outside the box

0 3 . 2 Do you think that the proposed reservoir development should go ahead?

Yes ☐ No ☐

Tick the box to show your choice.

Use evidence from the resources booklet and your own understanding to explain your choice.

[9 marks]
[+3 SPaG marks]

Extra space

Do not write outside the box

18

End of Section A

Do not write outside the box

There are no questions printed on this page

Turn over for Section B

DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED

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Section B Fieldwork

Answer **all** questions in this section.

Study **Figure 4**, information collected by students about visitors to Bournemouth, a coastal town in Dorset.

Figure 4

Survey of 100 people staying in a hotel
(carried out by questionnaire on a Saturday in August)

Origins of visitors (Where people came from)	
Scotland	4
North East	8
Yorkshire and the Humber	6
East Midlands	14
East Anglia	6
South East	20
South West	12
Wales	4
West Midlands	16
North West	8
Northern Ireland	2

Visitor spending	
Accommodation	19%
Shopping	22%
Food and drink	30%
Attractions and entertainment	11%
Travel	15%
Other	3%

Do not write outside the box

0 4 . 1 Complete the map below (**Figure 5**) to show the origin of visitors to Bournemouth using the following data.

Yorkshire and the Humber	6%

[1 mark]

Figure 5

0 4 . 2 Describe the pattern shown by **Figure 5**.

[2 marks]

_____

_____

_____

_____

Question 4 continues on the next page

Do not write outside the box

0 4 . 3 **(a)** Suggest **one** additional question which could be included on the visitor survey.

[1 mark]

(b) Give **one** reason why your chosen question might provide useful information for the visitor survey.

[1 mark]

Study **Figure 6**, information about visitor numbers to the main tourist attractions in a city.

Figure 6

Visitor numbers to main tourist attractions (thousands)	
January	80
February	110
March	120
April	180
May	220
June	230
July	270
August	310
September	200
October	190
November	100
December	120

Do not write outside the box

A student used the following presentation method (**Figure 7**) to show the information in **Figure 6**.

Figure 7

0 4 . 4 **(a)** Suggest a more appropriate method for presenting the data shown in **Figure 6**.

[1 mark]

(b) Give a reason for your choice.

[1 mark]

Question 4 continues on the next page

Do not write outside the box

As part of a geographical enquiry, students carried out an environmental quality survey in one part of a town centre. The results are shown in **Figure 8**.

Figure 8

	–2	–1	0	+1	+2	
Lots of traffic pollution				✓		No traffic pollution
Lots of litter	✓					No litter
Unattractive buildings					✓	Attractive buildings
Lots of vandalism		✓				No vandalism
No landscaping					✓	Good landscaping

0 4 . 5 What is the total environmental quality score for the area shown in **Figure 8**?

[1 mark]

_____

0 4 . 6 Suggest **one** advantage and **one** disadvantage of using the technique shown in **Figure 8** to measure environmental quality.

[2 marks]

Advantage _____

_____

Disadvantage _____

_____

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Question 4 continues on the next page

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Students studied two different rivers over a distance of 1000 metres. For each river they measured the depth at a number of sites. The results are shown on **Figure 9**.

Figure 9

Do not write outside the box

0 4 . 7 Complete the scattergraph for **River B** by plotting the following data.

Distance from source – 450 m

Depth of river – 22 cm

[1 mark]

0 4 . 8 Draw a line of best fit on the scattergraph for **River B**.

[1 mark]

0 4 . 9 Compare the relationship between distance from source and depth of river for the two rivers.

[4 marks]

Extra space

16

Turn over for the next question

Do not write outside the box

Write the title of your **physical** geography fieldwork enquiry.

Title of fieldwork enquiry _____

_____

0 5 . 1 Explain why the chosen location was suitable for the collection of data.

[2 marks]

_____

_____

_____

_____

0 5 . 2 Justify **one** primary data collection method used in your **physical** geography enquiry.

[3 marks]

_____

_____

_____

_____

_____

_____

Do not write outside the box

Write the title of your **human** geography fieldwork enquiry.

Title of fieldwork enquiry _____

0 5 . 3 Explain how **one** data presentation technique used in your **human** geography enquiry helped you to interpret the data.

[6 marks]

Extra space _____

Question 5 continues on the next page

Do not write outside the box

0 5 . 4 For **one** of your fieldwork enquiries, assess the extent to which the accuracy of the results and the reliability of the conclusions could be improved.

[9 marks]
[+3 SPaG marks]

Title of fieldwork enquiry _____

Extra space _____

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23

END OF QUESTIONS

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