AQA

Please write clearly in block capitals.

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

Surname _____

Forename(s) _____

Candidate signature _____

# GCSE
# GEOGRAPHY

## Paper 3 Geographical Applications

Thursday 13 June 2019 Morning Time allowed: 1 hour 15 minutes

**Materials**
For this paper you must have:
- the Pre-release resources booklet (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, shade the circle next to the correct 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** in the resources booklet, 'Tropical rainforests'.

**0 1 . 1** Calculate the temperature range for Manaus.

**[1 mark]**

**0 1 . 2** Explain why there are 'no real seasonal temperature differences' in areas of tropical rainforest.

**[2 marks]**

**0 1 . 3** Suggest **one** reason why so many medicinal drugs are derived from tropical rainforests.

**[1 mark]**

*Do not write outside the box*

**0 1 . 4** ‘Tropical rainforests are important at both the local and global scales.’

Discuss this statement.

**[6 marks]**

Extra space

10

**Turn over for the next question**

*Do not write outside the box*

Study **Figure 2** in the resources booklet, 'Deforestation of tropical rainforests'.

**0 2 . 1** Compare the pattern of forest loss between the Brazilian Amazon and the non-Brazilian Amazon.

**[3 marks]**

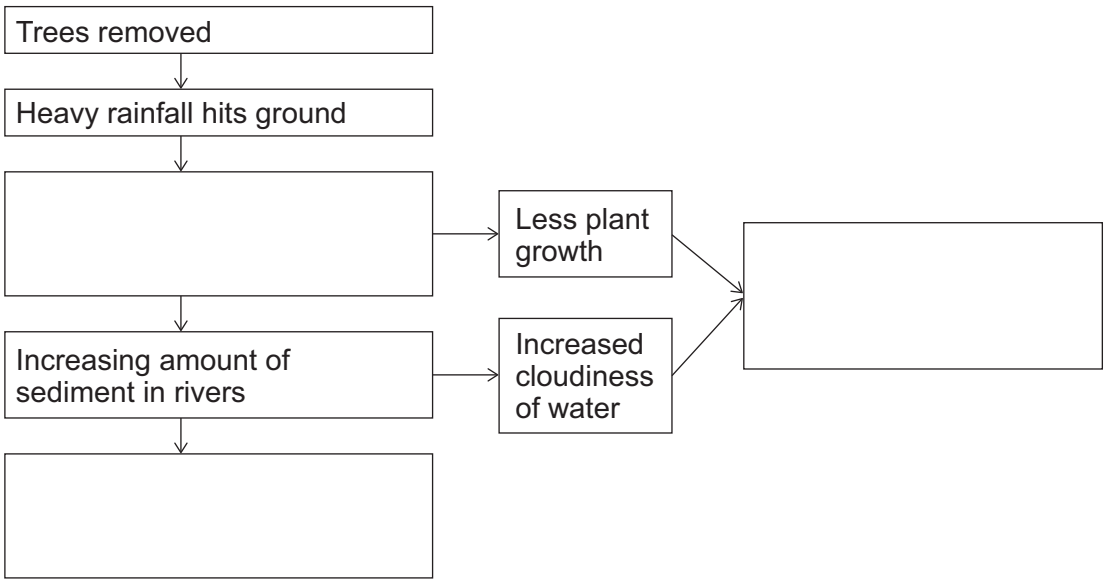
**0 2 . 2** Complete the following diagram to show how the removal of trees can affect the rainforest environment.

Write the correct statement in each box.

Choose from the statements below.

**[2 marks]**

**Increasing flood risk** **Less animal life** **Soil is eroded**



*Do not write outside the box*

**0 2 . 3** ‘Some activities in areas of tropical rainforests are more damaging than others.’

To what extent do you agree with this statement?

**[6 marks]**

Extra space

**11**

**Turn over for the next question**

*Do not write outside the box*

Study **Figure 3** in the resources booklet, 'Road development in the Peruvian Amazon'.

**0 3 . 1** What does the information in the 'Peru: development fact file' suggest about levels of development in Peru?

**[4 marks]**

Extra space

*Do not write outside the box*

**0 3 . 2** 'The Peruvian government has decided to allow the development of new roads in the Amazon.'

Do you think that this was the right decision?

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]**

*Do not write outside the box*

Extra space

**End of Section A**

16

*Do not write outside the box*

## Section B Fieldwork

Answer **all** questions in this section.

Study **Figure 4**, a table showing information collected by students about housing development in four areas on the edge of a town.

**Figure 4**

| Area | Original area of countryside (hectares) | Area lost to housing developments (hectares) | Remaining countryside (hectares) | % loss of countryside |
|---|---|---|---|---|
| **A** | 240 | 24 | 216 | 10 |
| **B** | 320 | 160 | 160 | |
| **C** | 260 | 39 | 221 | 15 |
| **D** | 420 | 84 | | 20 |

**0 4 . 1** Complete the table (**Figure 4**) by filling in the data for Area **B** and Area **D**.

**[2 marks]**

**Question 4 continues on the next page**

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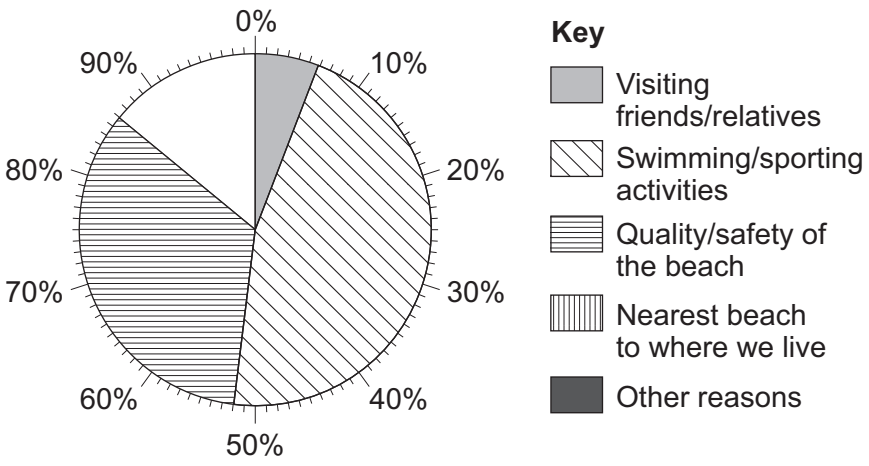
Study **Figure 5**, showing information from a survey of 100 people in a coastal area.

**Figure 5**

| What is your main reason for visiting this coastal area? | Responses |
|---|---|
| Visiting friends/relatives | 6 |
| Swimming/sporting activities | 46 |
| Quality/safety of the beach | 34 |
| Nearest beach to where we live | 8 |
| Other reasons | 6 |

**0 4 . 2** Complete the pie chart below to show the information for **Figure 5**.

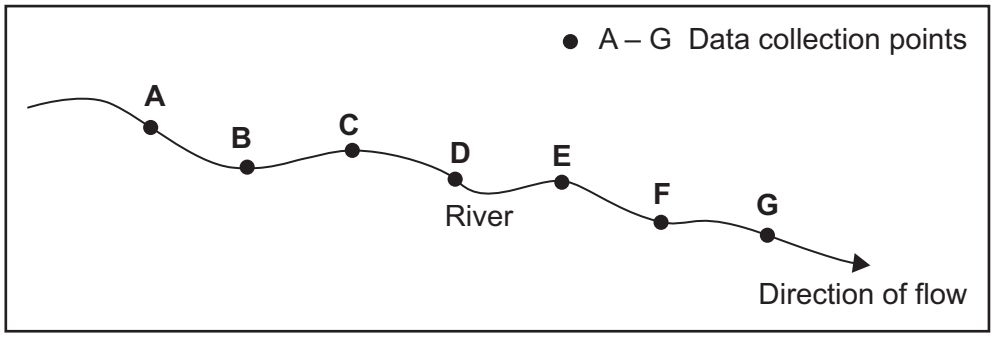
**[1 mark]**



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Study **Figure 6**, part of a student's planning sheet in a fieldwork enquiry.

**Figure 6**




**0 4 . 3** Name the type of sampling method used in **Figure 6**.

Shade **one** circle only.

**[1 mark]**

**A** Opportunity sampling, selecting points which are easiest to access ⬭

**B** Random sampling, based on chance ⬭

**C** Stratified sampling, where more points are chosen from one area ⬭

**D** Systematic sampling where points are chosen at regular intervals ⬭

**0 4 . 4** Suggest why the type of sampling shown in **Figure 6** is not always possible in a fieldwork enquiry.

**[2 marks]**

**Question 4 continues on the next page**

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Study **Figures 7a** and **7b**, part of a contour map and a cross section used in a river enquiry.

**Figure 7a**

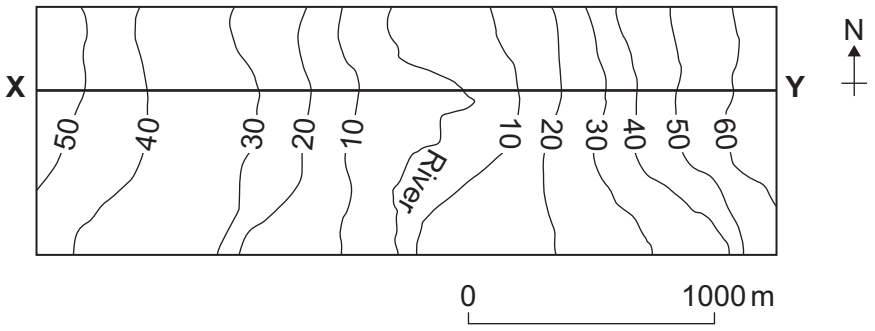
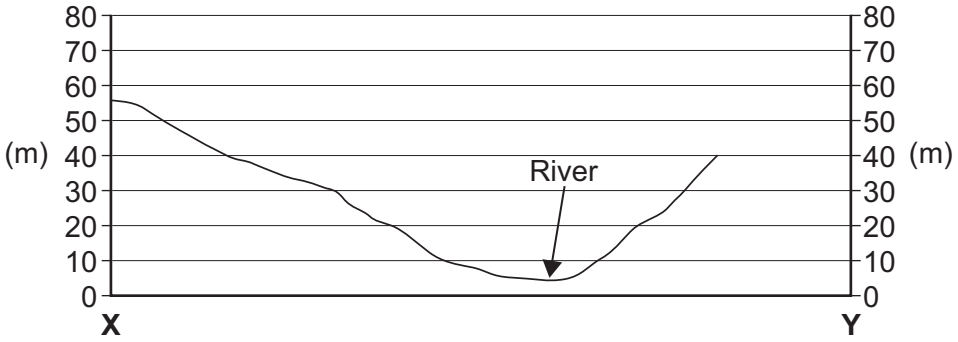



**Figure 7b**




**0 4 . 5** Complete the cross-section from **X–Y** on **Figure 7b**.

**[1 mark]**

**0 4 . 6** Describe the slope of the land from point **X** to the river.

**[1 mark]**

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Study **Figure 8**, information about a questionnaire survey.

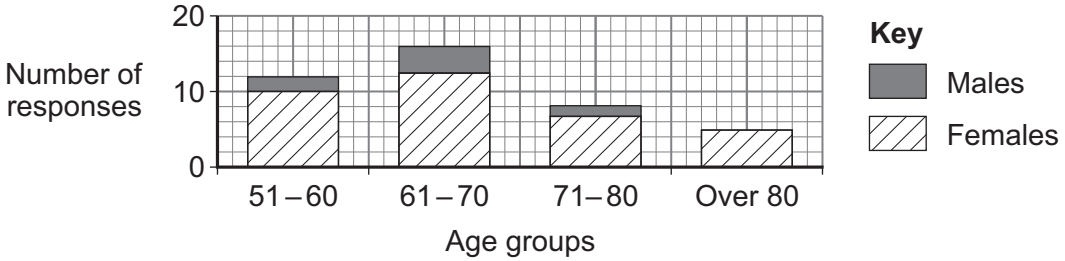
**Figure 8**

A group of students used a questionnaire to assess whether local facilities for the older population were good enough.

In this area 48% of the population are over 50 years old. Females account for 56% of this age group.

The students completed the questionnaire in the town centre on a Saturday morning.

The following diagram shows the age groups of people who were asked to complete the questionnaire.




**0 4 . 7** Suggest **two** ways that students might adapt their method in order to obtain more appropriate data.

**[2 marks]**

1 _____

_____

2 _____

_____

**0 4 . 8** Suggest **two** additional data collection techniques that the students could use to find out if local facilities are good enough for the older population.

**[2 marks]**

1 _____

_____

2 _____

_____

**Question 4 continues on the next page**

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Study **Figure 9**, a housing quality survey from twelve different areas of a town.

**Figure 9**

| Area | Housing quality |
|---|---|
| 1 | 4 |
| 2 | 6 |
| 3 | 6 |
| 4 | 2 |
| 5 | 9 |
| 6 | 3 |
| 7 | 10 |
| 8 | 1 |
| 9 | 5 |
| 10 | 8 |
| 11 | 10 |
| 12 | 1 |

Scale

1 ⟶ 10

Very poor — Very good

**0 4 . 9** Assess the usefulness of measures of central tendency, such as median, mean and mode, in analysing the housing quality data collected by the students.

**[4 marks]**

Extra space

16

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

**Title of physical fieldwork enquiry** _____

_____

**0 5 . 1** Suggest why **one** set of data you collected in your physical fieldwork enquiry may not have been accurate.

**[2 marks]**

_____

_____

_____

_____

**0 5 . 2** Identify **one** potential risk in your physical geography fieldwork and explain how the risk was reduced.

**[3 marks]**

Risk _____

How the risk was reduced _____

_____

_____

_____

_____

_____

**Question 5 continues on the next page**

*Do not write outside the box*

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

**Title of human fieldwork enquiry** _____

_____

**0 5 . 3** Assess the suitability of the location chosen for your human geography enquiry.

**[6 marks]**

_____

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Extra space _____

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**0 5 . 4** To what extent did the data collected for **one** of your enquiries allow you to reach valid conclusions?

**[9 marks]**
**[+3 SPaG marks]**

**Title of fieldwork enquiry** _____

Extra space _____

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23

**END OF QUESTIONS**

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