

## Tuesday 14 June 2022 – Morning

### GCSE (9–1) Geography A (Geographical Themes)

#### J383/03 Geographical Skills

Time allowed: 1 hour 20 minutes



**You must have:**

- the OS Map
- the Resource Booklet (inside this document)

**You can use:**

- a ruler (cm/mm)
- a scientific or graphical calculator



Please write clearly in black ink. **Do not write in the barcodes.**

Centre number

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Candidate number

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First name(s)

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Last name

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#### INSTRUCTIONS

- Use black ink. You may use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided. If you need extra space use the lined pages at the end of this booklet. The question numbers must be clearly shown.
- Answer **all** the questions.

#### INFORMATION

- The total mark for this paper is **65**.
- The marks for each question are shown in brackets [ ].
- Quality of extended response will be assessed in questions marked with an asterisk (\*).
- Spelling, punctuation and grammar (SPaG) and the use of specialist terminology will be assessed in questions marked with a pencil (✎).
- This document has **16** pages.

#### ADVICE

- Read each question carefully before you start your answer.

**Section A – Geographical Skills**

Answer **all** the questions.

**1** Study the separate **Ordnance Survey (OS) map** extract of the area to the south of Shrewsbury.

**(a) (i)** In which direction does the A458 travel if you were driving towards Shrewsbury?

..... [1]

**(ii)** Which building of historic interest is found in grid square 5211?

- A** Boreton Grange
- B** Emstrey
- C** Longner Hall
- D** Raven's Nest

Write the correct letter in the box.

[1]

**(iii)** Approximately how far would you travel along the A5 from the roundabout at grid reference 488097 to the roundabout at grid reference 521107?

- A** 0.3 km
- B** 1.5 km
- C** 3.3 km
- D** 5.5 km

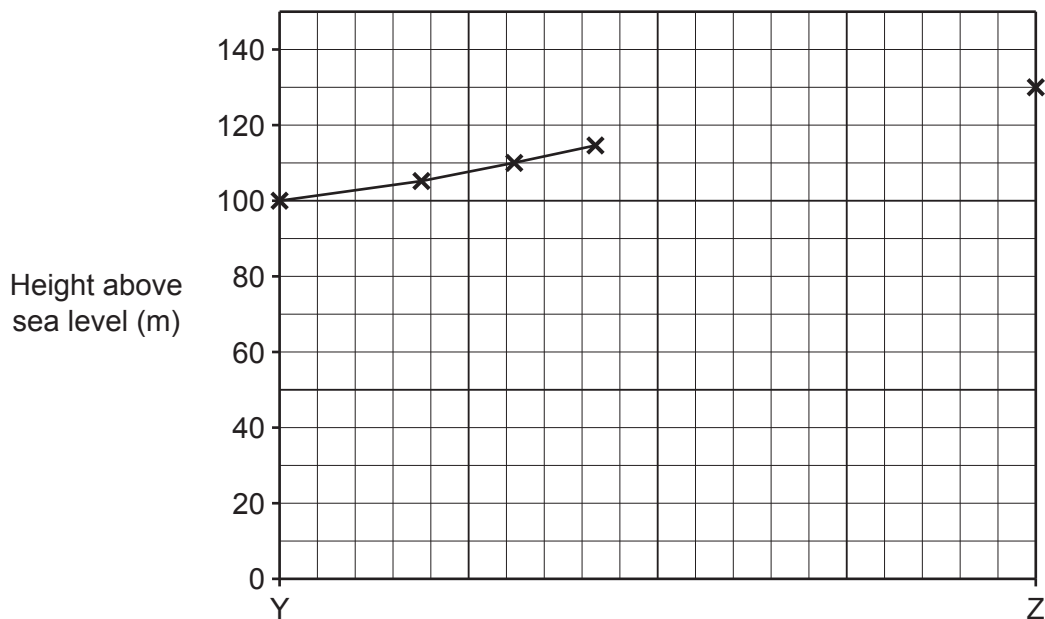
Write the correct letter in the box.

[1]

**(b)** Study **Fig. 1** in the separate Resource Booklet, which shows an enlargement of grid square 4708 on the OS map extract.

**(i)** Use **Fig. 1** to complete the cross-section below of line YZ. [1]

**(ii)** Mark your line with an 'S' to show the location of the Shropshire Way on your cross-section.



[1]

(c) Study **Fig. 2** in the separate Resource Booklet, which shows a photograph of a stone quarry near Bayston Hill.

(i) In which direction was the camera pointing when the photograph was taken?

..... [1]

(ii) Using evidence from the **OS map** extract, describe the location of the stone quarry.

.....  
.....  
..... [2]

(d) Bayston Hill is an example of counter-urbanisation.

Using the **OS map** extract, explain **two** reasons why counter-urbanisation has taken place in this location.

1 .....  
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2 .....  
.....  
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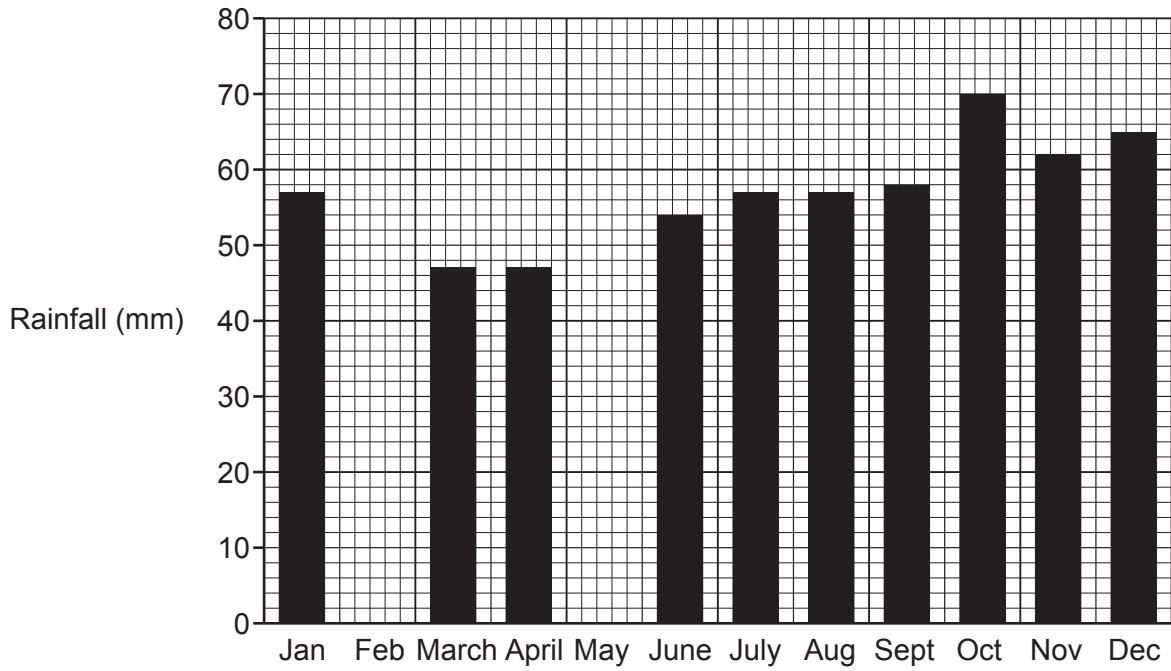
[4]



5  
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PLEASE DO NOT WRITE ON THIS PAGE

- 2 (a) Study the bar chart below, which shows average monthly rainfall in Shrewsbury, a town in England.



- (i) Complete the rainfall graph using the information in the table below.

Month	Rainfall (mm)
February	40
May	55

[2]

- (ii) State the mode of the rainfall values.

..... [1]

- (iii) Calculate the mean of the rainfall values to two decimal places (2dp).

Show your working below.

..... [2]

(b) Describe the pattern of rainfall shown. Use data in your answer.

.....  
.....  
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.....  
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..... [4]

(c) Study **Fig. 3** in the separate Resource Booklet, which shows the River Severn in Shrewsbury.

(i) Identify **one** feature in **Fig. 3** which suggests Shrewsbury residents will be vulnerable to flood events. Explain your answer.

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.....  
..... [2]

(ii) Suggest why photographs can sometimes show bias.

.....  
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..... [2]

3 Study **Fig. 4** in the separate Resource Booklet, which shows the population of the world's ten largest urban areas over time.

(a) Identify the urban area forecast to have the greatest population change between 1990 and 2030.

..... [1]

(b) Which of the following urban areas is forecast to see a population decline between 2018 and 2030?

- A Delhi
- B Mexico City
- C Osaka
- D Shanghai

Write the correct letter in the box.  [1]

(c) Suggest reasons for the difference in the rate of urban change between Tokyo and Delhi.

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.....  
..... [3]

(d) Study **Fig. 5** in the separate Resource Booklet, which shows information about urban areas worldwide.

(i) Suggest **one** reason for the distribution of megacities shown in **Fig. 5**.

..... [1]

(ii) Suggest **two** ways the presentation of this information might be improved.

1 .....

2 .....

[2]





Section B – Geographical Fieldwork

Answer **all** the questions.

- 4 Some Geography students have been conducting human geography fieldwork in the Bristol area. They were investigating the impact of internet shopping on retail in the city centre and chose to complete a questionnaire of local residents.

Questionnaire of local residents – internet vs city centre shopping										
<b>Question 1</b> Do you do more shopping on the internet or in Bristol city centre?										
0–18 years			18–65 years				65 years +			
Internet		City centre		Internet		City centre		Internet		City centre
82%		18%		74%		26%		48%		52%
<b>Question 2</b> Would you be likely to buy these items online or in the city centre? (all age groups)										
Jewellery		Furniture		Clothing		Food		Gifts		
Internet	City centre	Internet	City centre	Internet	City centre	Internet	City centre	Internet	City centre	
45%	55%	64%	36%	33%	67%	25%	75%	60%	40%	

- (a) The students divided the data for Question 1 into three age groups.

Suggest **one** way that the age groups might be adapted to improve the data collected.

..... [1]

- (b) Describe **one** way the data for Question 2 of their questionnaire might be presented.

Suggest why this would be an appropriate choice.

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..... [4]

(c) Explain **one** likely challenge for the city of Bristol suggested by the results of their questionnaire.

.....

.....

.....

..... [2]



**ADDITIONAL ANSWER SPACE**

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

A large area of lined paper for writing. It features a vertical margin line on the left side and horizontal dotted lines for writing. The lines are evenly spaced and extend across the width of the page.

This form consists of a vertical solid line on the left side, creating a margin. To the right of this line, there are 25 horizontal dotted lines spaced evenly down the page, providing a guide for handwriting or text entry.

A writing template consisting of a vertical solid line on the left side and 25 horizontal dotted lines extending across the page, providing a guide for handwriting practice.

A large area of the page is reserved for writing, featuring a vertical solid line on the left side and horizontal dotted lines extending across the page.

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