Oxford Cambridge and RSA

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 | | | | | | Candidate number | | | | |

First name(s) _____

Last name _____

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.

© OCR 2022 [601/8310/X]
DC (RW/CB) 300288/5
OCR is an exempt Charity

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?

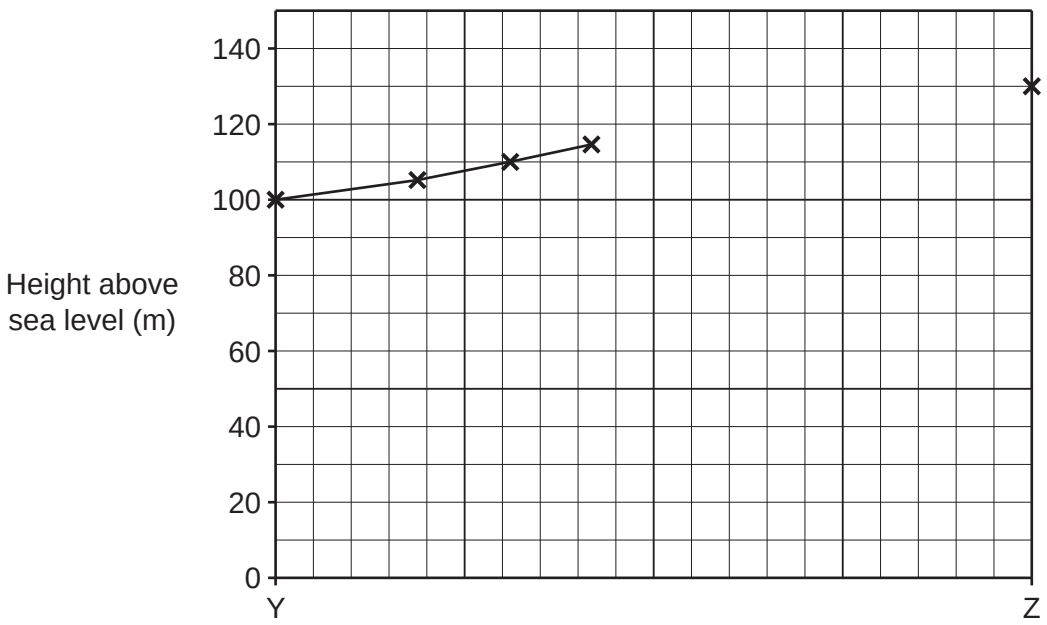
A 0.3 km
B 1.5 km
C 3.3 km
D 5.5 km

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]

© OCR 2022

(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 .....

.....

.....

2 .....

.....

.....
[4]

© OCR 2022

(e) Some environmental guidelines for housing developers in Bayston Hill are shown below:

- A review of traffic and air quality concerns should be carried out.
- The river running alongside the development should maintain its current habitats.
- Trees and hedgerows on the site should be kept in place.
- Housing development should be limited to areas which ensure there is no increase in flood risk.

Assess how far housing developments have been the main cause of UK environmental change.

You could consider energy, farming and/or water supply in your answer.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... **[6]**

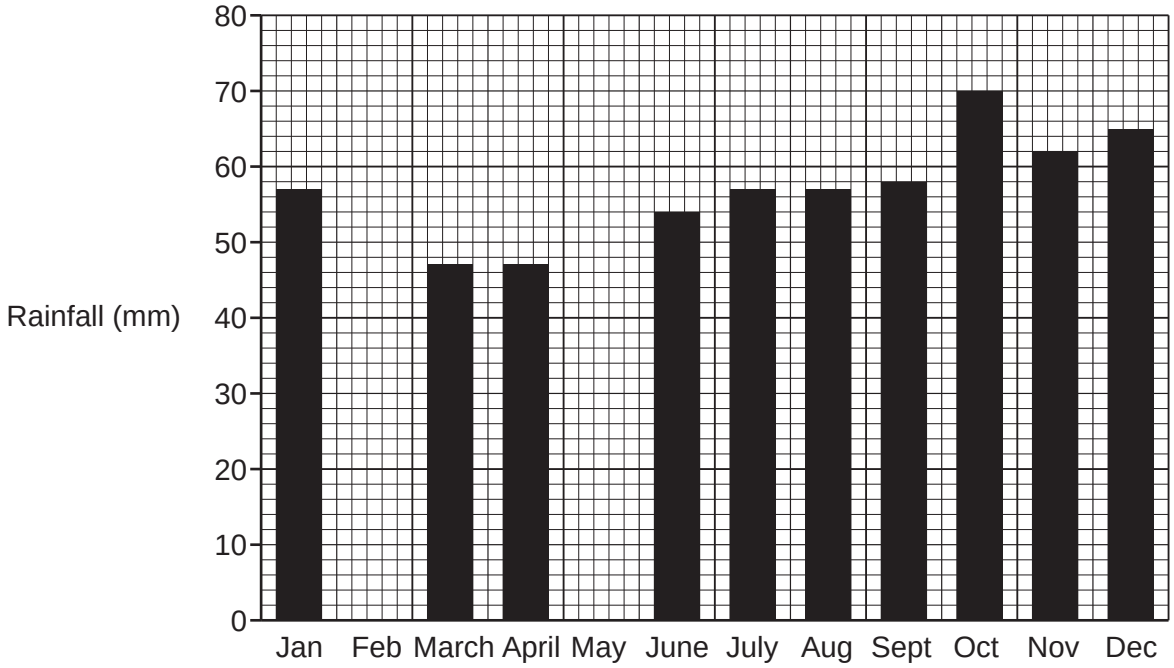
© OCR 2022

BLANK PAGE

PLEASE DO NOT WRITE ON THIS PAGE

© OCR 2022

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]**

© OCR 2022

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

.....

.....

.....

.....

.....

..... **[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.

.....

.....

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

(ii) Suggest why photographs can sometimes show bias.

.....

.....

.....

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

© OCR 2022

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.

.....

.....

.....

.....

..... **[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]

© OCR 2022

(e)* To what extent do you agree that the challenges faced by cities are the same all over the world?

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... **[8]**

© OCR 2022

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

Question 1
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%

Question 2
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.

.....

.....

.....

.....

.....

.....

.....

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

© OCR 2022

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

.....

.....

.....

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

© OCR 2022

5* Some Geography students have been conducting physical geography fieldwork in the North York Moors national park.

Study **Fig. 6** in the separate Resource Booklet, which shows the students' data collection sheet for investigating river features.

Evaluate the effectiveness of the data collection sheet shown in **Fig. 6**.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... **[8]**

✎ Spelling, punctuation and grammar and the use of specialist terminology **[3]**

END OF QUESTION PAPER

© OCR 2022

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).

© OCR 2022

© OCR 2022

© OCR 2022

OCR
Oxford Cambridge and RSA

Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact The OCR Copyright Team, The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

OCR is part of Cambridge University Press & Assessment, which is itself a department of the University of Cambridge.

© OCR 2022