



Oxford Cambridge and RSA

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

## J383/03 Geographical Skills

### Monday 11 June 2018 – Afternoon

### Time allowed: 1 hour 30 minutes



**You must have:**

- the OS map (inserted)
- the Resource Booklet (inserted)

**You may use:**

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

First name											
Last name											
Centre number							Candidate number				

### INSTRUCTIONS

- The separate OS map extract and Resource Booklet will be found inside this document.
- Use black ink. You may use an HB pencil for graphs and diagrams.
- Complete the boxes above with your name, centre number and candidate number.
- Answer **all** the questions.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the barcodes.

### INFORMATION

- The total mark for this paper is **80**.
- The marks for each question are shown in brackets [ ].
- Quality of extended responses will be assessed in questions marked with an asterisk (\*).
- Spelling, punctuation and grammar and the use of specialist terminology (SPaG) will be assessed in questions marked with a pencil (✎).
- This document consists of **16** pages.

**SECTION A – Geographical Skills**

Answer **all** the questions.

1 Study **Fig. 1**, an OS map extract of part of Dartmoor National Park.

(a) (i) In which grid square is the largest part of Burrator reservoir found?

..... [1]

(ii) What is the approximate size of Burrator reservoir?

- A 0.05 sq km
- B 0.5 sq km
- C 5 sq km
- D 10 sq km

Write the correct letter in the box.  [1]

(iii) Suggest **one** appropriate method of displaying the changes in height between Sheeps Tor (5668) and Down Tor (5769).

..... [1]

(b) **Fig. 2** shows an aerial photograph of Burrator reservoir.

(i) Using **Fig. 2**, state whether this photograph shows an upland or lowland landscape. Give **one** reason why.

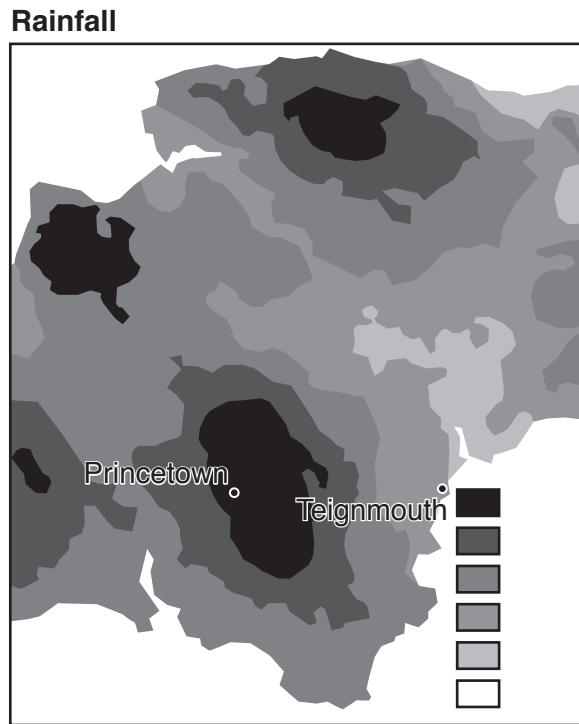
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(ii) Using **Fig. 1** and **Fig. 2**, identify in which direction the camera was pointing when the photograph was taken.

- A North
- B North West
- C South
- D South West

Write the correct letter in the box.  [1]

(c) Study the choropleth map below, showing rainfall patterns in Devon.



Suggest **two** ways in which the presentation of information on this map could be improved.

- 1 .....
- 2 .....

[2]

2 Burrator reservoir lies in the Tamar river catchment.

(a) Study **Fig. 3** in the separate Resource Booklet, which provides information about farming within this river catchment.

(i) Which type of farming is most popular within the Tamar catchment?

- A Beef & Sheep
- B Cereals
- C Dairy
- D Horticulture

Write the correct letter in the box.  [1]

(ii) Name the graphical technique being used to demonstrate the number of farms in each region of the Tamar catchment.

..... [1]

(iii) Calculate the difference between the total number of farms found in Upper Tamar and Kensey.

..... [1]

(b) **Fig. 4** in the separate resource booklet shows the population density of the Tamar catchment area.

(i) Describe the pattern of population density in the Tamar catchment area. Use data in your answer.

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- (ii) Using **Fig. 4** and your own knowledge, explain why the level of infrastructure in the Tamar catchment area will vary.

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

- (c) The South Hams region of Devon makes up part of the Tamar catchment area. Its population structure is shown in **Fig. 5** in the separate Resource Booklet.

Using **Fig. 5**, describe the evidence that shows that South Hams has an ageing population.

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

**Turn over for the next question**

(d)\* Study the extract below.

### Devon's Ageing Population – Key Facts and Figures

- In Devon almost 23% of households are classed as isolated, compared with the national average of only 5%.
- Almost twice as many people in Devon compared with England as a whole (33.3% to 17.2% respectively) are not within a 60 minute drive of their nearest hospital.
- Substantial areas of the county are without daily access by public transport to a local town.
- Devon experiences higher levels of rural deprivation than other parts of the country.
- There are an estimated 11 955 people over 65 with dementia.
- There are significant numbers of older people in Devon with mental health problems, particularly depression (20 000 over 75's).

'The ageing population of rural counties such as Devon is a more serious challenge than any faced by UK cities.'

To what extent do you agree with this statement?

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[8]

3 Study **Fig. 6** in the separate Resource Booklet, a map of Costa Rica.

(a) (i) What is the approximate distance from the capital, San Jose to the northern town of Liberia?

- A 50 km
- B 140 km
- C 165 km
- D 500 km

Write the correct letter in the box.

[1]

(ii) Using information from **Fig. 6**, describe the location of Costa Rica.

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..... [2]

(b) Study **Fig. 7** in the separate Resource Booklet, rainforest cover in Costa Rica.

(i) Describe the changes in rainforest cover in Costa Rica between 1940 and 2005.

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(ii) Explain **two** reasons for the changes you have described.

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[4]

- (c) In 2010, forests covered 31 percent of the world's land surface, at 4030 million hectares. Between 1990 and 2010, 135 million hectares of previously forested land was removed.

Calculate the percentage of the world's land surface covered by forests in 1990 to the nearest whole number. You must show your working out.

..... [2]

- (d) Explain how the management of tropical rainforests can influence the sustainable development of a country.

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**Turn over for Section B**

**SECTION B – Geographical Fieldwork**

Answer **all** the questions.

- 4 Some geography students have been conducting **physical geography** fieldwork on Dartmoor. They were investigating river flow. Some of their results are shown in the table below.

Site	Width	Depth near side	Depth middle	Depth far side
1	0.5m	8	12	6
2	0.8m	5	14	7
3	1.2m	18	32	12
4	2.0m	15	28	10

- (a) (i) Suggest **one** problem with the recording of this data.

..... [1]

- (ii) Identify **two** further pieces of information that the students could collect about the river.

1 .....

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2 .....

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[2]

- (iii) Calculate the median value for all the measurements of depth taken. You should show your workings out.

Median value is .....

[2]

- (b) Describe, in detail, **one** way the data in the table on page 10 about the river's depth could be presented in a fieldwork investigation. Give reasons for your choice.

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- (c) **Fig. 8** in the separate Resource Booklet locates the four study sites along the River Dart.  
Using both the table of data on page 10 and **Fig. 8**, assess the evidence for the following hypothesis:

*'The River Dart increases in both width and depth as it flows downstream.'*

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..... [6]

- 5 You will have taken part in fieldwork in a **human geography** environment as part of your studies. Examples might include a city or village study.

State your fieldwork question for investigation: .....

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Location of study area: .....

- (a) Suggest **one** reason why this was a suitable location to study.

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- (b) Assess **two** fieldwork techniques used in your investigation. Explain which technique was the most effective.

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**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).

This block contains 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.

A grid of dotted lines for writing on page 15. The grid consists of 20 horizontal rows. Each row is defined by two horizontal dotted lines. A vertical solid line is positioned on the left side of the page, approximately one-tenth of the way from the left edge, extending from the top to the bottom of the grid.

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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