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GEOGRAPHY 0460/21

Paper 2 Geographical Skills

May/June 2022

1 hour 30 minutes

You must answer on the question paper.

You will need: Insert (enclosed)

Plain paper Protractor

1:25 000 survey map (enclosed) Calculator

Ruler

INSTRUCTIONS

- Answer all questions.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do not write on any bar codes.
- If additional space is needed, you should use the lined pages at the end of this booklet; the question number or numbers must be clearly shown.

INFORMATION

- The total mark for this paper is 60.
- The number of marks for each question or part question is shown in brackets [].
- The insert contains additional resources referred to in the questions.

- 1 Study the map extract for Lochwinnoch, Scotland. The scale is 1:25000.
 - (a) Fig. 1.1 shows some of the features in the west of the map extract. Study Fig. 1.1 and the map extract and answer the questions below.

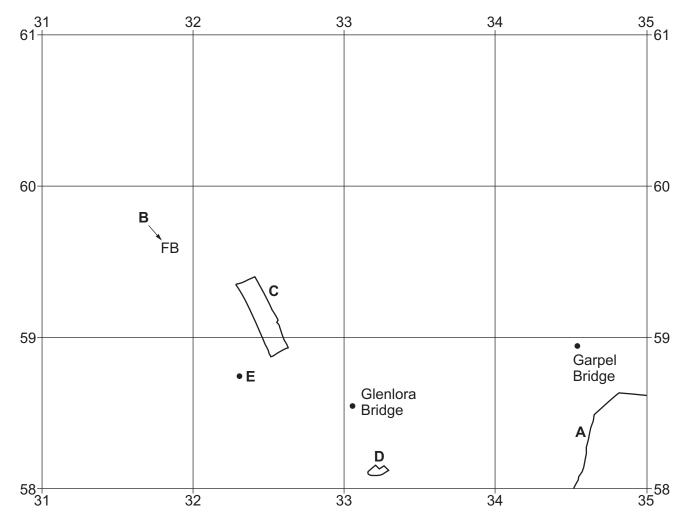


Fig. 1.1

Using the map extract, identify the following features shown in Fig. 1.1:

| (i) | feature A | |
|-------|---|-----|
| | | [1] |
| (ii) | feature B | |
| | | [1] |
| (iii) | the land use at C | |
| | | [1] |
| (iv) | the name of settlement D | |
| | | [1] |
| (v) | the height above sea level of the spot height (survey height) at E . | |

[1]

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..... metres

| (b) | Fig. 1 | .1 show | s the l | ocations | of | Glenlora | Bridge | and | Garnel | Brida |
|-----|---------|-----------|----------|----------|-----|-----------|--------|-----|--------|-------|
| (D) | i ig. i | . 1 51101 | /5 HIC I | ocalions | OI. | Gieriiora | Diluge | anu | Gaipei | Dilu |

| (b) | Fig. | 1.1 shows the locations of Glenlora Bridge and Garpel Bridge. | | |
|-----------------|------|---|------------------|-----------------|
| | (i) | Using the map extract, measure how far it is along the road from Garpel Bridge. | enlor | a Bridge to |
| | | metres | | [1] |
| | (ii) | Measure the bearing from Glenlora Bridge to Garpel Bridge. | | |
| | | degrees | | [1] |
| (c) | Usir | ng the map extract, describe the drainage in the area shown in Fig. 1.1. | | |
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| | | | | |
| | | | | [5] |
| (d) | Fig. | 1.2 is a cross-section along northing 615 from 380615 to 410615. | | |
| | 10 | Crossflat 00 7 Hill X | _Γ 100 | |
| | 7 | 75 | -75 | |
| metres above | 3 | 50- | -50 | metres above |
| sea lev | eı | | | sea level |
| | .2 | 25- | -25 | |
| | 3 | 0. ¹ 80615 41 | ⊥0 0615 | |
| | | Fig. 1.2 | | |
| | (i) | Identify the feature at X . | | |
| | | | | [1] |

[1]

(ii) On Fig. 1.2, use a labelled arrow to show the position of the main road.

| (e) | Find the settlement of Howwood in the east of the map extract. Using map evidence suggest reasons for the growth of the settlement. |
|-----|---|
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| | [5] |
| | [Total: 20] |

2 Fig. 2.1 shows the change in population density in France from 2010 to 2020.

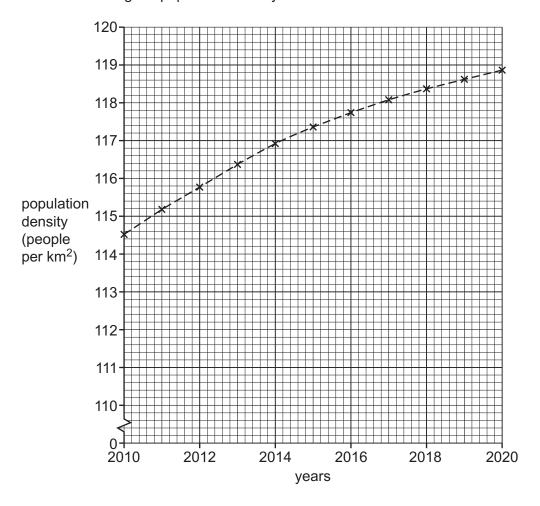


Fig. 2.1

| (i) | Using Fig. 2.1, state the population density in France in 2018. | |
|------|--|---|
| | people per km ² | [1] |
| (ii) | Using Fig. 2.1, describe the change in population density in France between 2010 a 2020. | nd |
| | | |
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| | | |
| | | |
| | | |
| | ., | (ii) Using Fig. 2.1, describe the change in population density in France between 2010 a 2020. |

(iii) Which one of the following could explain why the population density in France as shown in Fig. 2.1 is increasing? Tick (✓) **one** box below.

| | tick (✓) |
|--------------------------|----------|
| positive net migration | |
| negative net migration | |
| urban to rural migration | |

[1]

(b) Fig. 2.2 shows the population density of the five most densely populated regions in France in 2019.

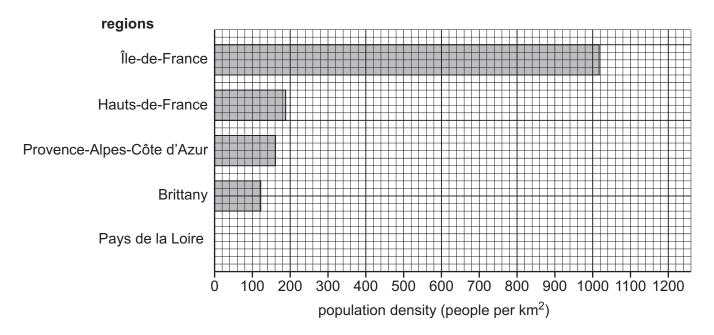


Fig. 2.2

(i) Complete Fig. 2.2 by adding the following information:

Pays de la Loire 120 people per km².

[1]

(ii) The Pays de la Loire region has an area of 32082 km². Calculate the total population of this region. Show your working and answer in the box below.

Answer: people

[2]

[Total: 8]

3

| | dy Figs. 3.1 and 3.2 (Insert), which show how the clouds changed between 08:00 and 16:00 at location. | | | | | | |
|-----|--|--|--|--|--|--|--|
| (a) | a) Describe how the clouds changed between 08:00 and 16:00. | | | | | | |
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| | [4] | | | | | | |
| (b) | Suggest how the weather changed between 08:00 and 16:00 at the location shown in Figs. 3.1 and 3.2 for the weather features shown below. | | | | | | |
| | temperature | | | | | | |
| | | | | | | | |
| | sunlight | | | | | | |
| | | | | | | | |
| | precipitation | | | | | | |
| | | | | | | | |
| | humidity | | | | | | |
| | [4] | | | | | | |
| | [Total: 8] | | | | | | |

4 Fig. 4.1 shows the locations of hot deserts in the world.

(a)

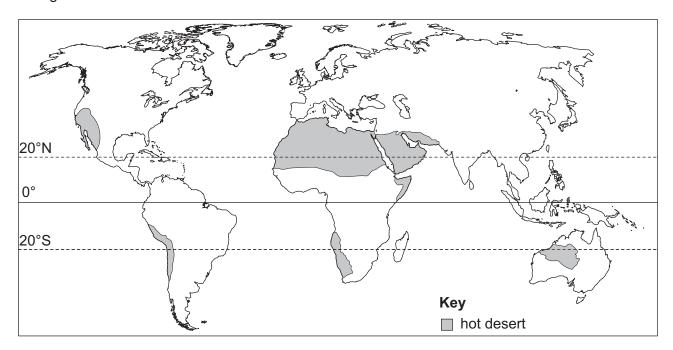


Fig. 4.1

| Describe the distribution of not deserts shown in Fig. 4.1. |
|---|
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| [3 |



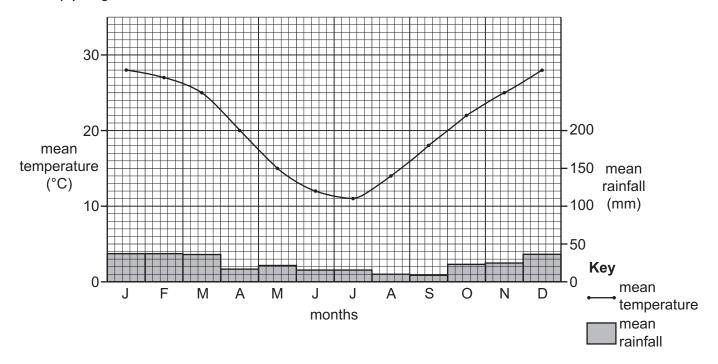


Fig. 4.2

| (i) | Using Fig. 4.2, state the annual range of temperature. | | | | |
|-----|--|-----|--|--|--|
| | °C | [1] | | | |

(ii) Using Fig. 4.2, estimate the total annual rainfall. Tick (✓) one box below.

| | tick (✓) |
|--------|----------|
| 90 mm | |
| 190 mm | |
| 290 mm | |
| 390 mm | |

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| | (iii) | What evidence from Fig. 4.2 suggests that this place is in the southern hemisphere? | |
|-----|-------|---|--|
| | | | |
| (c) | Des | scribe two different ways in which plants adapt to a hot desert climate. | |
| | 1 | | |
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| | ۷ | | |

5 Fig. 5.1 shows the three largest exports for four continents.

| Asia | share of global market (%) | export value US \$ (billions) |
|---------------|-------------------------------|----------------------------------|
| electronics | 86 | 540 |
| phones | 75 | 424 |
| processed oil | 50 | 421 |

| Europe | share of global market (%) | export value US \$ (billions) |
|---------------|-------------------------------|----------------------------------|
| cars | 53 | 404 |
| medicine | 81 | 266 |
| processed oil | 38 | 248 |

| South America | share of global market (%) | export value US \$ (billions) |
|---------------|-------------------------------|----------------------------------|
| cars | 19 | 142 |
| crude oil | 11 | 97 |
| processed oil | 14 | 92 |

| Africa | share of global market (%) | export value US \$ (billions) |
|-----------------|-------------------------------|----------------------------------|
| crude oil | 14 | 116 |
| gold | 8 | 26 |
| petroleum gases | 9 | 25 |

Fig. 5.1

| (a) | Usir | ng Fig. 5.1, identify the following: | |
|-----|-------|--|-----|
| | (i) | Africa's most important export | |
| | | | [1] |
| | (ii) | the export from Asia which has the highest global market share | |
| | | | [1] |
| | (iii) | the total value of South America's top three exports. | |
| | | US \$ | [1] |

| (b) | Using Fig. 5.1, compare the exports of Europe and Africa. Do not use statistics in your answer. |
|-----|---|
| | |
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| | |
| | |
| | |
| | [3] |
| (c) | Asia earns a large amount of money from its exports. State two different ways this might benefit the development of countries in Asia. |
| | 1 |
| | |
| | 2 |
| | [2] |
| | [T_4-], O |
| | [Total: 8] |

| (a) | | (Insert) shows the location of high technology industries on a science park in England. te an example of a high technology product. |
|-----|------|--|
| (a) | | [1 |
| (b) | (i) | Describe the industrial units shown at A on Fig. 6.1. |
| | | |
| | | |
| | | [2 |
| | (ii) | Using Fig. 6.1, suggest two reasons why this area was chosen for the location of high technology industries. |
| | | 1 |
| | | 2 |
| | | [2 |
| (c) | - | plain why transport costs are not the most important factor when locating high technology ustry. |
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Additional pages

| If you use the following pages to complete the answer to any question, the question number must be clearly shown. |
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