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GEOGRAPHY **0460/22**

Paper 2 Geographical Skills **February/March 2025**

1 hour 30 minutes

You must answer on the question paper.

You will need: Insert (enclosed)
1:50 000 survey map (enclosed)
Calculator
Plain paper
Protractor
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.

LEDCs – Less Economically Developed Countries
MEDCs – More Economically Developed Countries

This document has **16** pages. Any blank pages are indicated.

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[Turn over

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1 Study the map extract for Lysefjorden, Norway. The scale is 1:50 000.

(a) Fig. 1.1 shows some of the features in the north-west of the map extract. Study Fig. 1.1 and the map extract, and answer the questions.

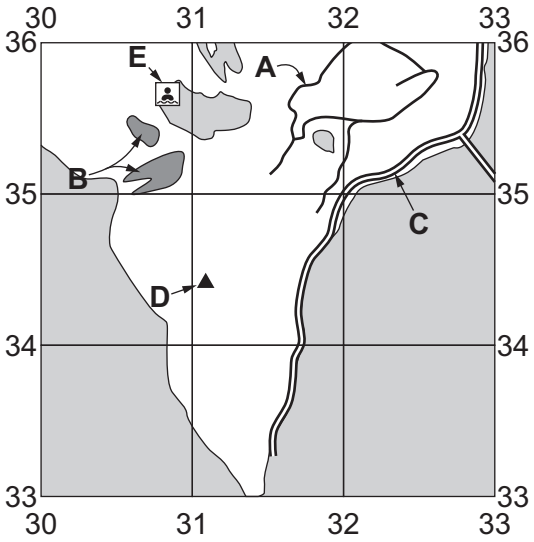


Fig. 1.1

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

(i) feature **A**

..... [1]

(ii) the land use at **B**

..... [1]

(iii) the type of road at **C**

..... [1]

(iv) the height above sea level of the trigonometric point at **D**.

..... [1]

(b) Give the six-figure grid reference of the swimming place at **E**, shown on Fig. 1.1. Tick (✓) **one** box. You should use the middle of the symbol to make your judgement.

	tick (✓)
309358	
308356	
317558	
358307	

[1]

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(c) Locate the trigonometric points at 597 m in grid square 3128 and at 440 m in grid square 3430 in the south-west of the map extract.

(i) What is the compass direction from the trigonometric point at 597 m to the trigonometric point at 440 m?

..... [1]

(ii) What is the distance between the trigonometric point at 597 m to the trigonometric point at 440 m?

..... kilometres [1]

(iii) What is the compass bearing from the trigonometric point at 597 m to the trigonometric point at 440 m?

..... degrees [1]

(d) Study the map extract west of easting 33.

Identify **three** services used by tourists.

1 .....

2 .....

3 .....

[3]

(e) The table compares the settlements of Oanes in grid square 3133 and also Forsand and Rettedal, which are near the centre of the map.

(i) Complete the table for Oanes by putting a tick (✓) or a cross (**x**) in each box.

settlement	Oanes	Forsand	Rettedal
dominant building		✓	**x**
farm house		✓	✓
dwelling house		✓	✓

[2]

(ii) Look again at the map extract.

Which of the three settlements is the most important in the settlement hierarchy?

..... [1]

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(f) Study the River Espedalsåna from 406323 to 357280 in the south-east of the map.

Describe the physical features of the river.

.....

.....

.....

.....

.....

..... [3]

(g) Describe the route of the 491 road from grid square 3232 to grid square 4031. You should **only** refer to **relief** in your answer.

3232 to 3531 .....

.....

.....

3530 to 3528 .....

.....

.....

3628 to 4031 .....

.....

.....

[3]

[Total: 20]

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2 **(a)** Fig. 2.1 (Insert) shows the population density of the South Island of New Zealand.

(i) How is the information in Fig. 2.1 shown? Tick (✓) **one** box in the table.

method	tick (✓)
choropleth map	
flow diagram	
isoline map	
pictogram	

[1]

(ii) Describe the distribution of areas with a population density of less than 1 per square kilometre and with 100–more than 100 per square kilometre.

less than 1 per sq km .....

.....

.....

100–more than 100 per sq km .....

.....

.....

[3]

(b) One region in the South Island of New Zealand has a population of 55 760 and a land area of 12 555 square kilometres.

Calculate its population density.

..... per sq km [1]

(c) Fig. 2.2 (Insert) is a simplified relief map of the South Island of New Zealand.

Describe the relationship between population density in Fig. 2.1 and relief in Fig. 2.2.

.....

.....

.....

..... [2]

(d) State **one** physical factor, other than relief, which might affect population density.

..... [1]

[Total: 8]

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3 **(a)** Fig. 3.1 shows the urban population living in squatter settlements in 2000 and 2018 in selected world regions (millions).

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Fig. 3.1

Describe the main changes shown in Fig. 3.1. Do not use statistics in your answer.

.....

.....

.....

..... [2]

(b) **(i)** What is a squatter settlement?

.....

..... [1]

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(ii) Fig. 3.2 is a sketch of part of a squatter settlement.

Using arrows, annotate (fully label) Fig. 3.2 to describe **three** features of the houses.



Fig. 3.2

[3]

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(c) Fig. 3.3 shows solutions to improving the quality of life for residents of squatter settlements.

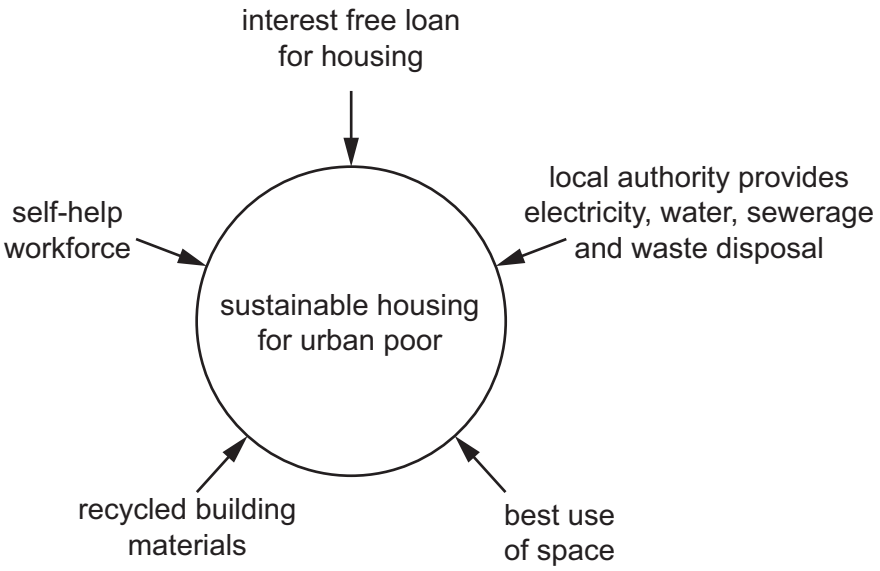


Fig. 3.3

Explain how **two** of the solutions shown in Fig. 3.3 will improve the quality of life for residents of squatter settlements.

1 .....

.....

2 .....

.....

[2]

[Total: 8]

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4 **(a)** Fig. 4.1 shows a sketch of a section of coast at Teignmouth in the UK.

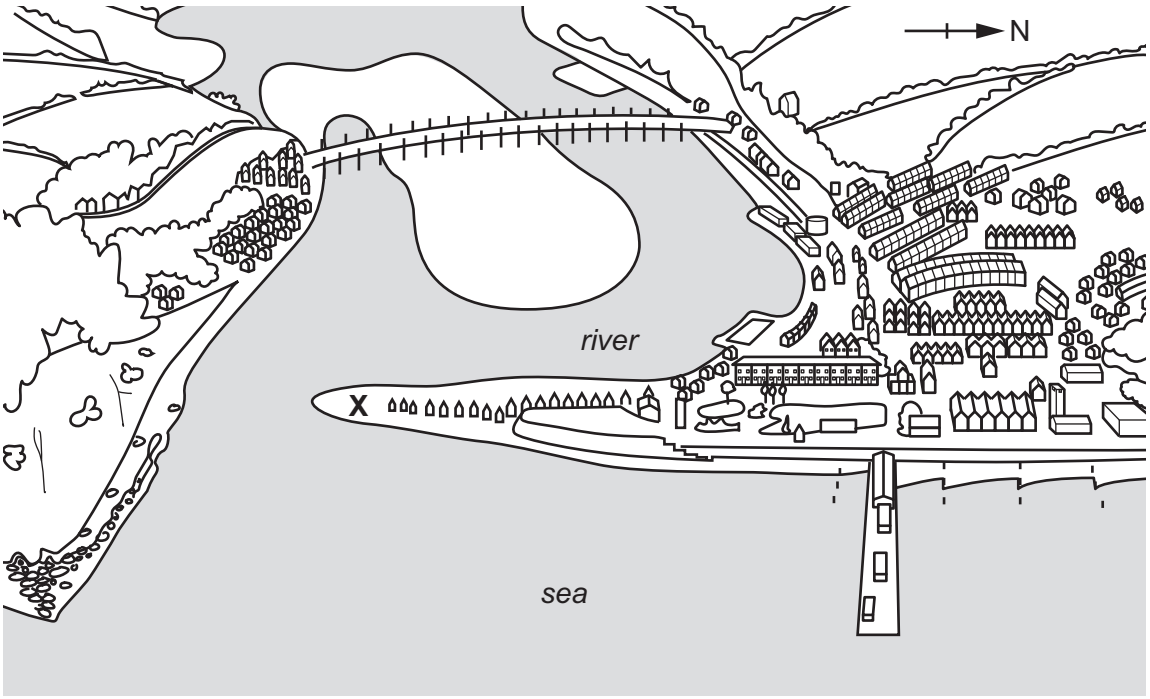


Fig. 4.1

(i) Using Fig. 4.1, name and describe the feature marked **X** on the sketch map.

name .....

description .....

.....

.....

.....

.....

[3]

(ii) On Fig. 4.1, draw an arrow with a label to show each of:

- the main wind and wave direction
- the direction of longshore drift.

[2]

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(b) Study Fig. 4.2 (Insert), a photograph of the same section of coast.

Using evidence from Fig. 4.2, state **three** opportunities that this section of coast provides for human activities. Give evidence for **each** opportunity from Fig. 4.2.

1 .....

.....

2 .....

.....

3 .....

.....

[3]

[Total: 8]

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5 **(a)** Fig. 5.1 (Insert) shows Mauna Loa, a shield volcano on the island of Hawaii.

(i) Using **only** Fig. 5.1, complete the following table to describe Mauna Loa. You should tick (✓) **one** box.

	tick (✓)
active	
dormant	
extinct	

[1]

(ii) Describe the features of the volcano shown in Fig. 5.1.

.....

.....

.....

.....

.....

.....

.....

..... [4]

(b) Mauna Loa is a shield volcano. State **two** ways that a strato-volcano (composite cone) is different from a shield volcano.

1 .....

.....

2 .....

.....

[2]

(c) Suggest why farming is **not** taking place on the slopes of Mauna Loa in Fig. 5.1.

.....

..... [1]

[Total: 8]

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6 **(a)** Fig. 6.1 shows information about India's water shortage.

54% of India faces high to extremely high water shortages

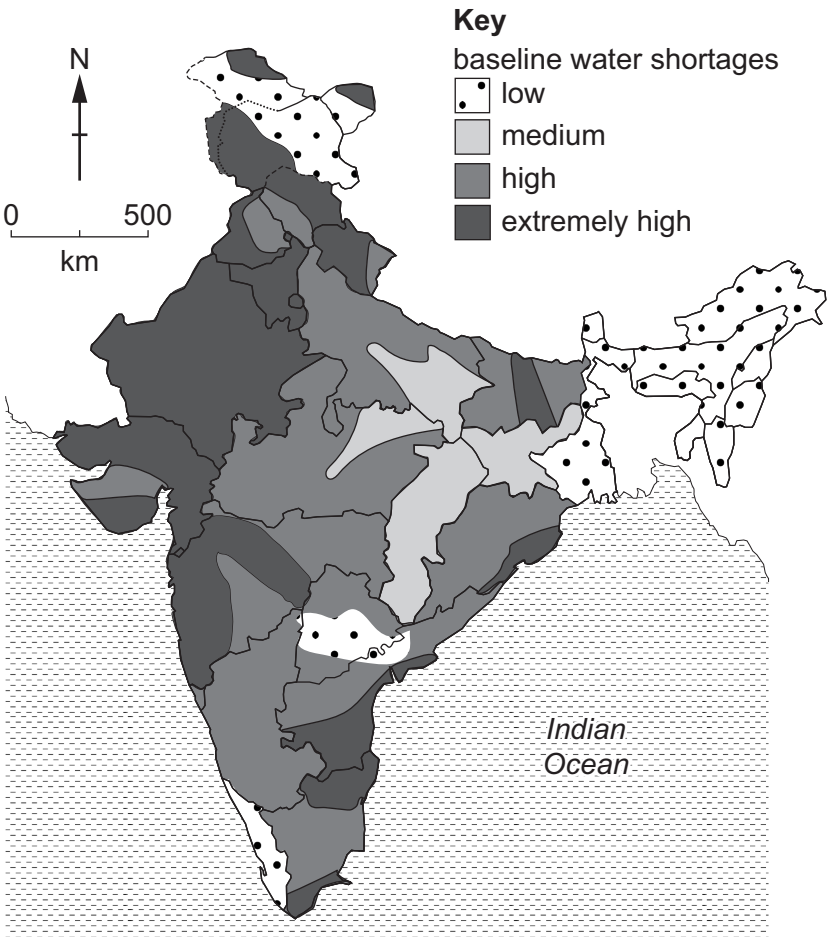


Fig. 6.1

(i) Using Fig. 6.1, describe the distribution of areas of extremely high water shortage. Do **not** name individual states.

.....

.....

.....

..... [2]

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Water consumers

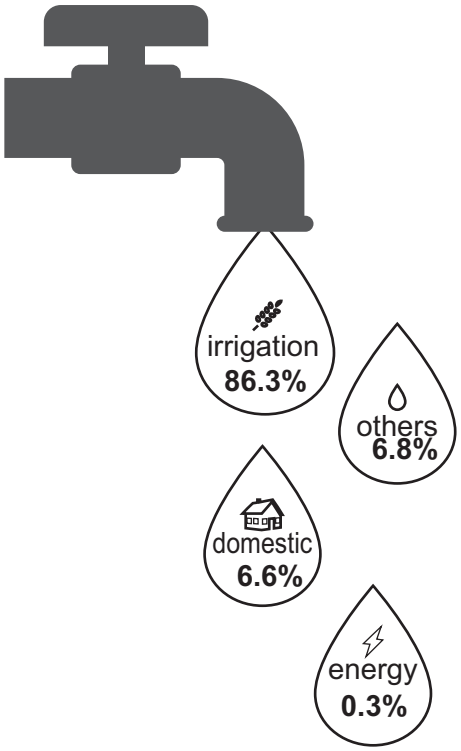


Fig. 6.2

(ii) Explain how you would draw a pie graph to show the data on water consumers in Fig. 6.2.

.....

.....

.....

..... [2]

(b) What are the **advantages** and **disadvantages** of building a large reservoir to increase water supplies in an LEDC?

advantages .....

.....

.....

.....

disadvantages .....

.....

.....

.....

[4]

[Total: 8]

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