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GEOGRAPHY **0460/23**

Paper 2 Geographical Skills **October/November 2024**

1 hour 30 minutes

You must answer on the question paper.

You will need: Insert (enclosed)
1:25 000 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 **20** pages. Any blank pages are indicated.

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1 Study the map extract for Sabbio Chiese, Italy. The scale is 1 : 25 000.

(a) Study Fig. 1.1, which shows some of the features in the north of the map extract.

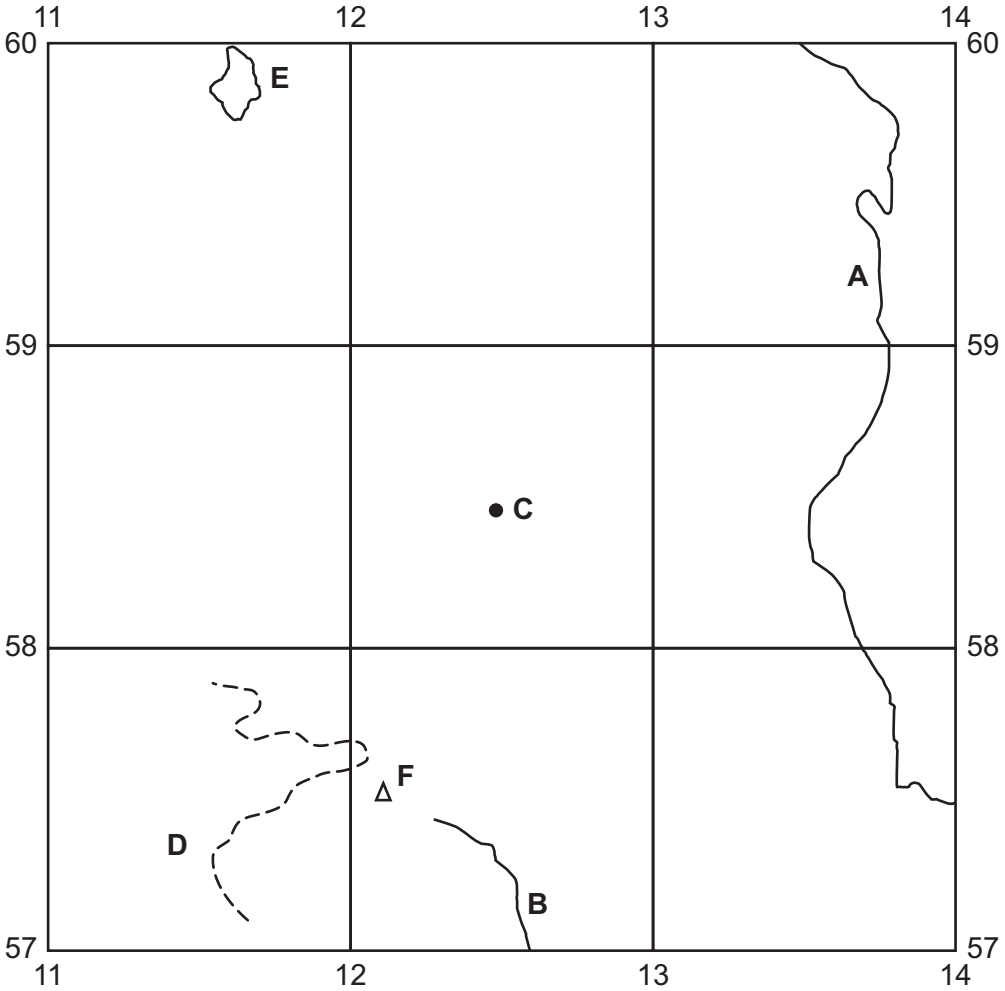

Fig. 1.1

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

(i) the type of road at **A**

..... [1]

(ii) the name of the river at **B**

..... [1]

(iii) the height above sea level of the spot height at **C**

..... metres [1]

(iv) feature **D**

..... [1]

(v) the name of the settlement at **E**.

..... [1]

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(b) Give the six-figure grid reference of the trigonometric point, **F**, shown in Fig. 1.1.

..... [1]

(c) Find the settlement of Pavone in grid square 1156.

(i) What is the settlement pattern of Pavone? Tick (✓) **one** box below.

	tick (✓)
linear	
nucleated	
dispersed	

[1]

(ii) Give a reason for this settlement pattern.

.....

..... [1]

(d) Find the yellow provincial road 237 in the north-west of the map extract.

(i) What is the distance in metres along the **yellow provincial road 237** between the roundabout (circle) in grid square 0958 and the northern edge of the map extract?

Tick (✓) **one** box below.

	tick (✓)
1000 m	
1400 m	
1800 m	
2200 m	

[1]

(ii) What is the compass direction **from** the roundabout (circle) in grid square 0958 **to** the parking in Sabbio Chiese?

..... [1]

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(e) Fig. 1.2 is a cross-section along northing 58 from 090580 to 110580.

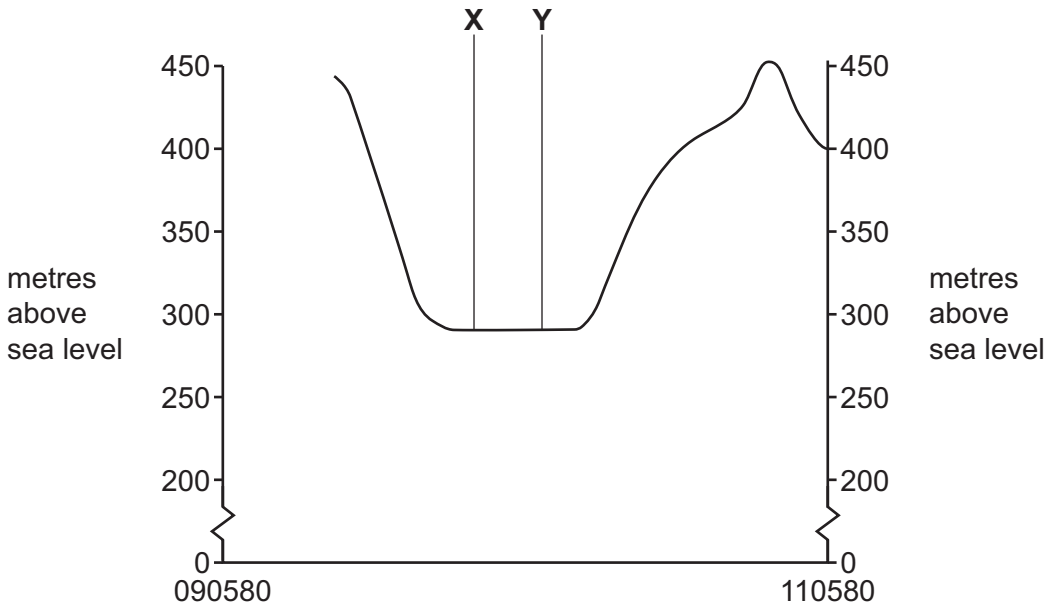

Fig. 1.2

(i) Identify the feature at **X**.

..... [1]

(ii) Identify the feature at **Y**.

..... [1]

(iii) The cross-section shown in Fig. 1.2 is incomplete. Using information from the map extract, draw a line on Fig. 1.2 to **complete the cross-section**. [2]

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(f) Study the river flowing between Barghe and Sabbio Chiese. Describe the physical (natural) features of the river and its valley. Do **not** refer to land use beside the river.

river

.....

.....

.....

.....

.....

.....

.....

valley

.....

.....

.....

.....

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.....

.....

[6]

[Total: 20]

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2 Study Fig. 2.1, which shows population change for Asia, Europe and the world between 1950 and 2020.

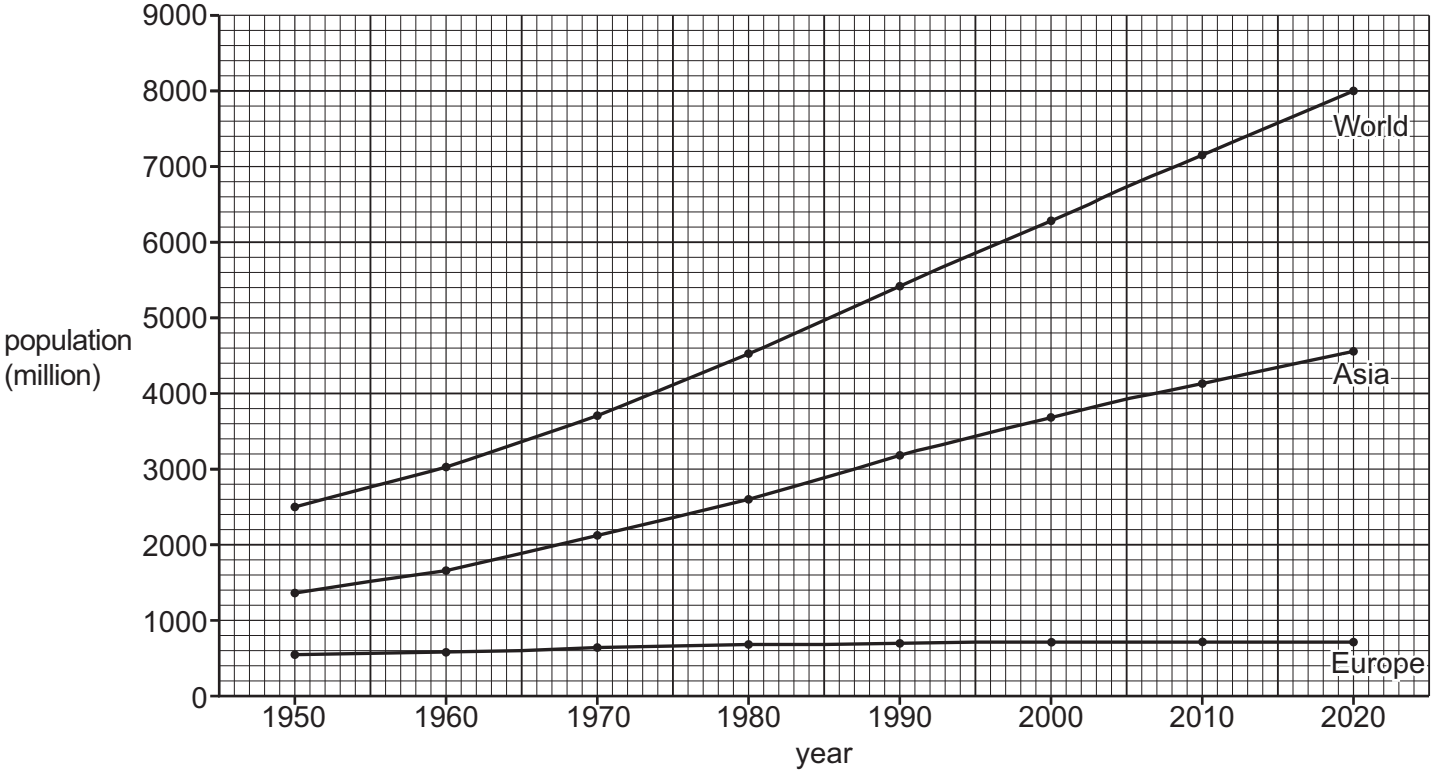

Fig. 2.1

(a) **(i)** What was the world population in 2020?

..... million [1]

(ii) Compare population change in Asia and Europe between 1950 and 2020. Use statistics in your answer.

.....

.....

.....

..... [2]

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(b) Table 2.1 shows population data for the United Kingdom in 2018.

Table 2.1

birth rate (per 1000 people)	death rate (per 1000 people)	net migration (per 1000 people)
11.3	9.3	+ 3.9

Population change can be calculated as **natural** population change or **overall** population change.

(i) Using Table 2.1, calculate the **natural** population change for the United Kingdom.

..... per thousand [1]

(ii) Using Table 2.1, calculate the **overall** population change for the United Kingdom.

..... per thousand [1]

(c) Some countries have a falling birth rate. Suggest **three** reasons why a country's birth rate might fall.

1 .....

.....

2 .....

.....

3 .....

.....

[3]

[Total: 8]

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3 Study Fig. 3.1 (Insert), which shows a rural settlement in France, Europe.

(a) Using Fig. 3.1, explain the factors that may have influenced the site of this rural settlement.

.....

.....

.....

.....

.....

.....

.....

..... [4]

(b) Study Fig. 3.2, which shows the relationship between size of population and the number of services within each settlement.

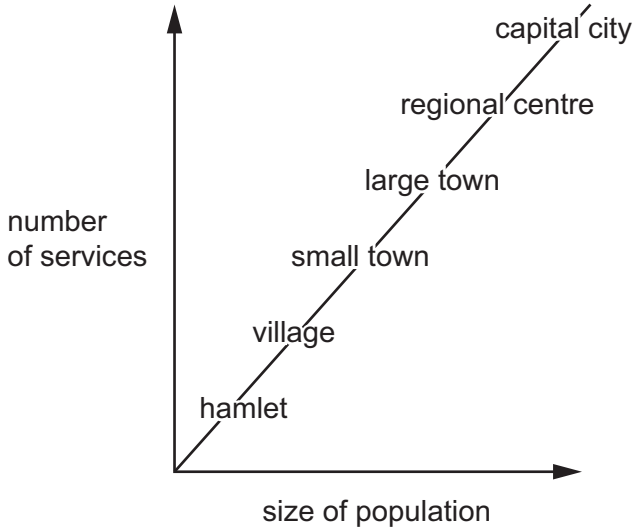

Fig. 3.2

Using Fig. 3.2, describe the relationship between size of population and the number of services within each settlement.

.....

..... [1]

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(c) Low-order services are found in rural settlements.

(i) Which of the following is a low-order service. Tick (✓) **one** box below.

	tick (✓)
hospital	
shoe shop	
primary school	

[1]

(ii) Explain why low-order services

have a small sphere of influence

.....

.....

have a low threshold population.

.....

.....

[2]

[Total: 8]

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4 Fig. 4.1 shows the average cliff erosion rate at selected sites in Withernsea, UK. Fig. 4.2 shows the location of the sites.

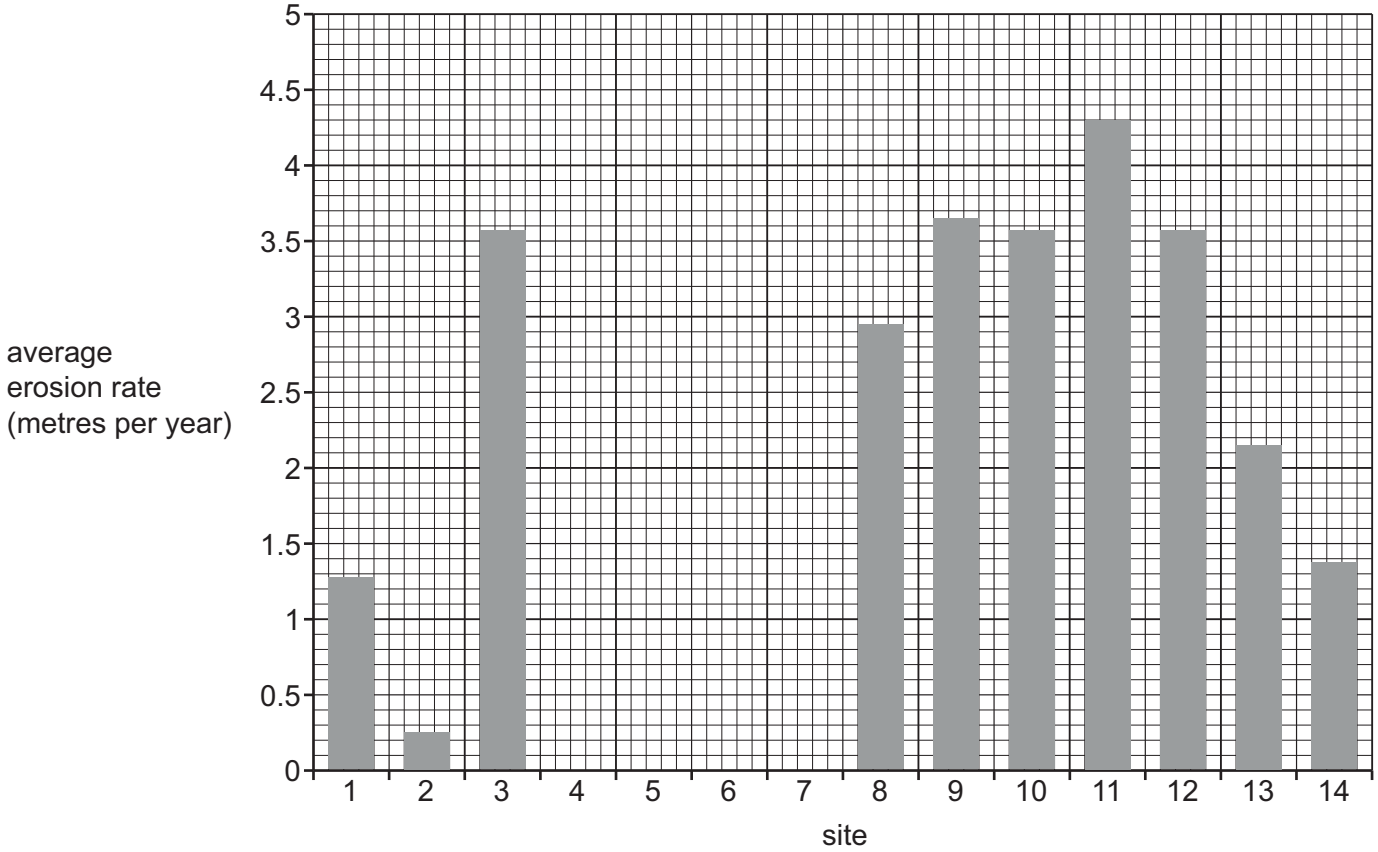

Fig. 4.1

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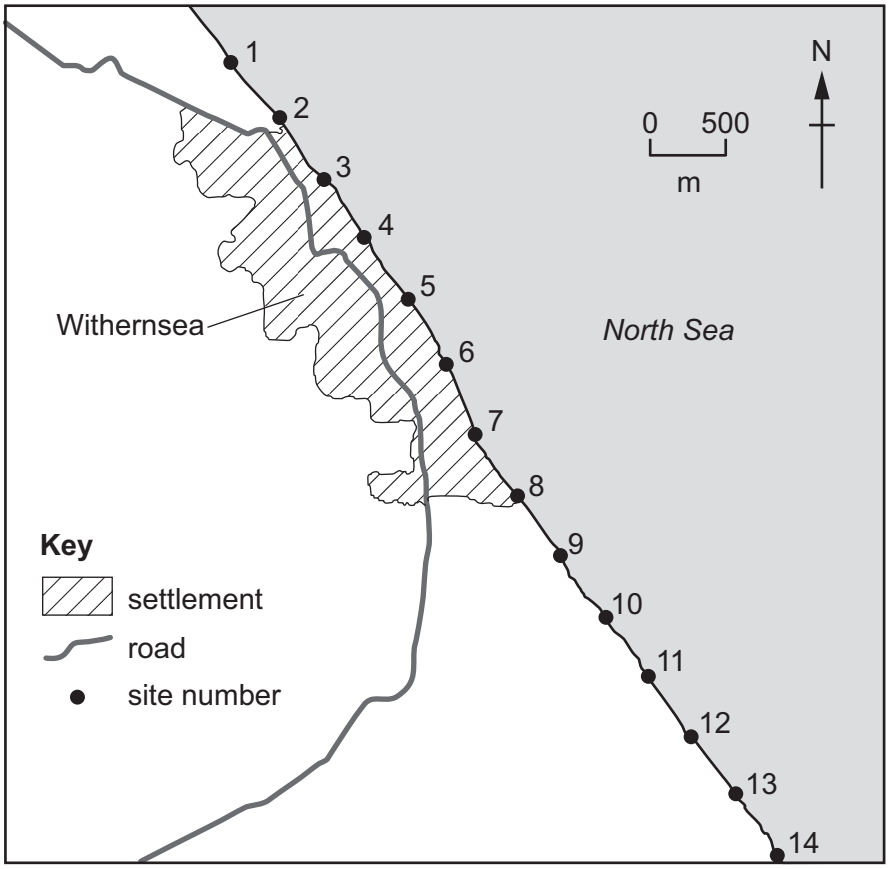

Fig. 4.2

(a) **(i)** Using Fig. 4.1, state the average erosion rate at site 11.

..... metres per year [1]

(ii) Using Fig. 4.2, suggest a reason why coastal protection methods were located between sites 4 and 7.

.....

..... [1]

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(b) Study Fig. 4.3 (Insert), which shows the coastal protection methods used at Withernsea, UK, between sites 4 and 7.

(i) Choose **one** of the coastal protection methods shown in Fig. 4.3, and explain how it protects the coast.

coastal protection method .....

.....

.....

.....

..... [2]

(ii) Describe the advantages and disadvantages of the coastal protection method chosen.

advantages

.....

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disadvantages

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[4]

[Total: 8]

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5 Study Fig. 5.1, which shows the processes of the hydrological cycle.

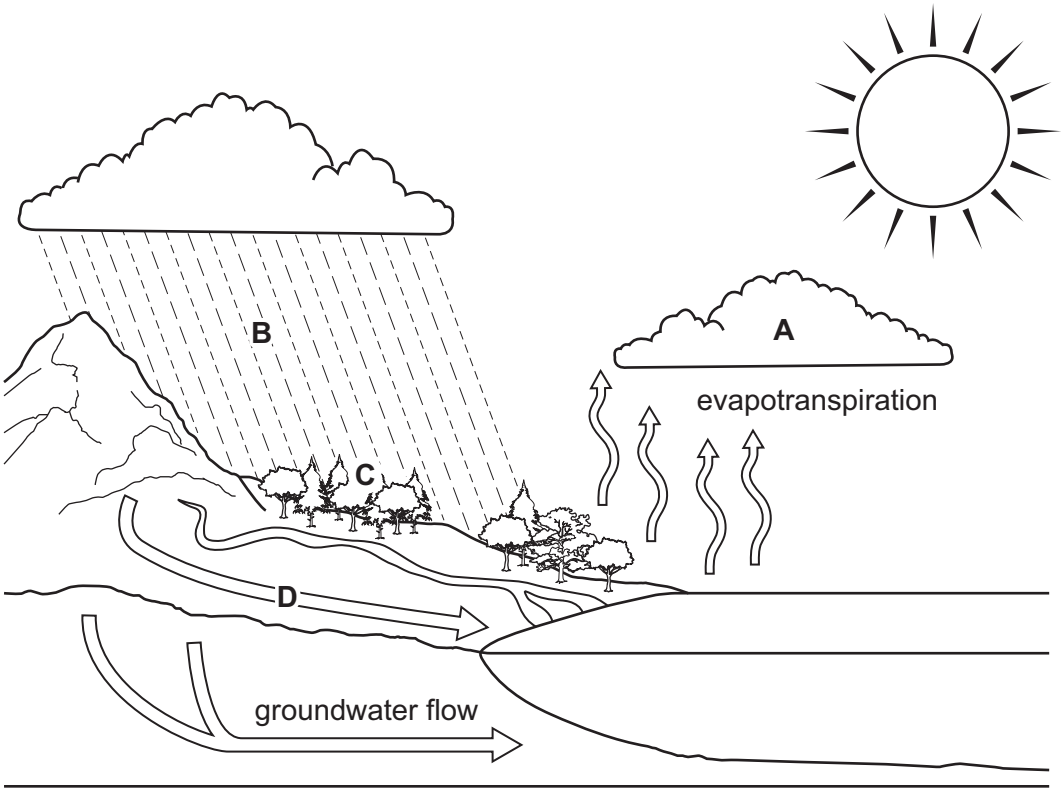

Fig. 5.1

(a) Name the processes **A–D** shown in Fig. 5.1.

A .....

B .....

C .....

D .....

[4]

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(b) The processes of evapotranspiration and groundwater flow are labelled in Fig. 5.1. Describe each of these processes.

evapotranspiration

.....

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.....

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groundwater flow

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[4]

[Total: 8]

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6 Study Fig. 6.1, which shows the agricultural system for an arable farm.

(a) Complete Fig. 6.1 using the following information.

labour planting relief vegetables

natural inputs
temperature
precipitation
soils
growing season

.....

human inputs
farm buildings
transport
subsidies
seeds
fertilisers
pesticides
machinery

.....

processes
ploughing
fertilising
pest control
weeding
harvesting

.....

outputs
cereal
flowers
crop waste

.....

Fig. 6.1

[2]

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(b) Fig. 6.2 shows the main impacts of climate change in Europe.

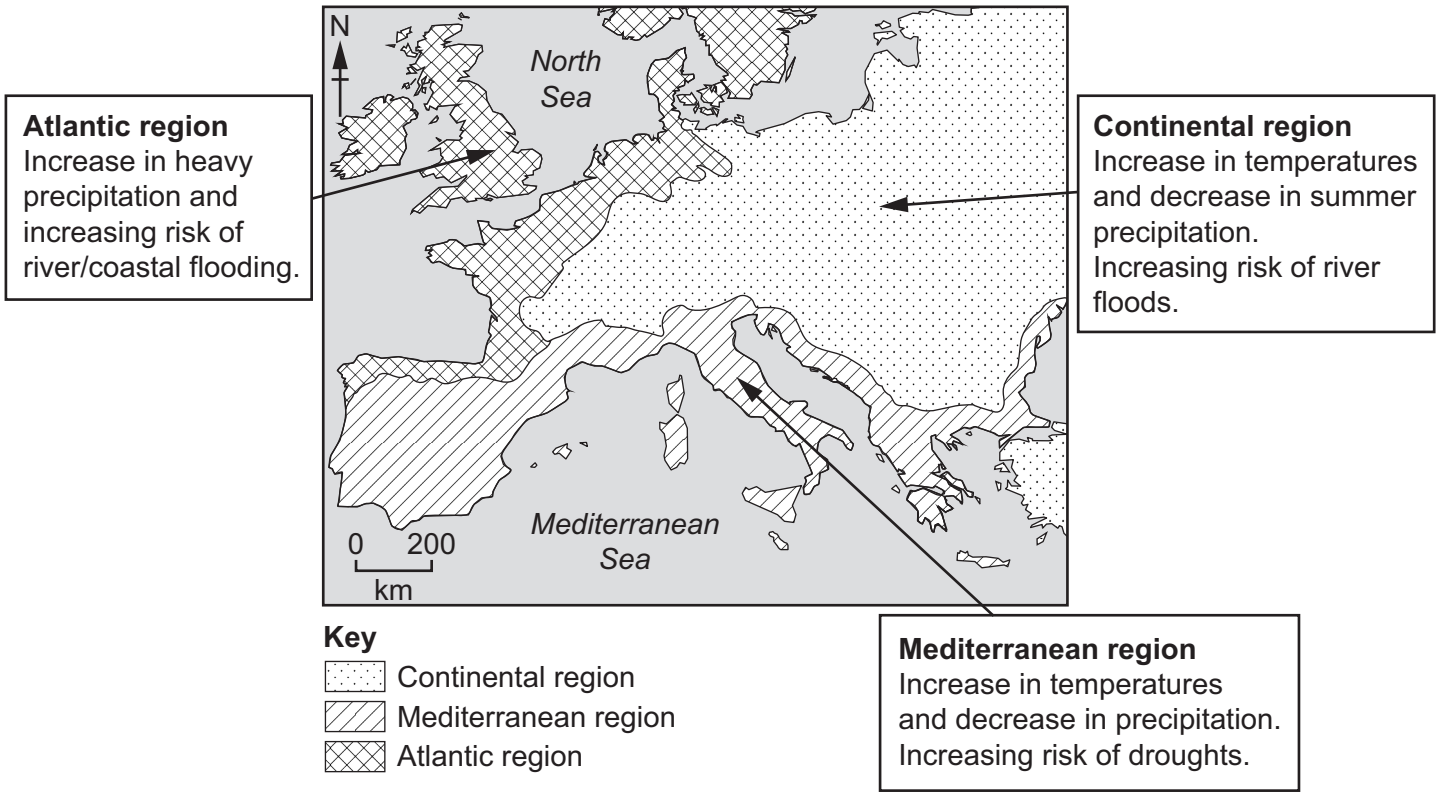

Fig. 6.2

Fig. 6.3 shows facts about agriculture in Europe.

22 million people are directly employed in the farming sector.

40% of land is used for agriculture.

The value of agricultural exports was $153 billion in 2017.

Farmers produce $\frac{1}{8}$ of global cereals, $\frac{1}{2}$ of global sugar beet and $\frac{3}{4}$ of global olive oil.

Fig. 6.3

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Using Fig. 6.2 and Fig. 6.3, suggest **three** possible impacts of climate change on agriculture in Europe.

1 .....

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2 .....

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3 .....

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[6]

[Total: 8]

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Additional page

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