



Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

I declare this is my own work.

GCSE GEOGRAPHY

Paper 1 Living with the physical environment

Wednesday 14 May 2025

Morning

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a pencil
- a rubber
- a ruler.

You may use a calculator.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.

Answer all questions in Section A and Section B.

Answer two questions in Section C.

Question 3 (Coasts), Question 4 (Rivers), Question 5 (Glacial)

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
TOTAL	

- You must answer the questions in the spaces provided. Do **not** write outside the box around each page or on blank pages.
- If you need additional extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The total number of marks available for this paper is 88.
- Spelling, punctuation, grammar and specialist terminology will be assessed in Question **01.12**.



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For the multiple-choice questions, shade the circle next to the correct answer.

CORRECT METHOD 

WRONG METHODS    

If you want to change your answer you must cross out your original answer as shown. 

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown. 

Section A The challenge of natural hazards

Answer **all** questions in this section.

Question 1 The challenge of natural hazards

0 1 . 1 Which **one** of these natural hazards is a tectonic event?

Shade **one** circle only.

[1 mark]

- | | |
|---------------------|---|
| A Drought |  |
| B Earthquake |  |
| C Flood |  |
| D Hurricane |  |

Study **Figure 1**, a table showing maximum temperatures recorded during selected heatwaves in the UK between 1976 and 2022.

Figure 1

Heatwave year	Maximum temperature (°C)
1976	35.9
1990	37.1
1995	35.2
2013	34.1
2018	35.3
2019	38.7
2021	32.2
2022	40.3

- 0 1 . 2** Using **Figure 1**, calculate the mean maximum temperature recorded during heatwaves between 1976 and 2022.

Give your answer to **one** decimal place.

_____ °C

[1 mark]

- 0 1 . 3** Using **Figure 1**, which **one** of the following statements about heatwaves in the UK is correct?

Shade **one** circle only.

[1 mark]

- A** Five have occurred since 2010.
- B** The maximum temperature has gradually decreased since 1976.
- C** There has been a continuous rise in the maximum temperature.
- D** They have become less frequent since 2013.

☐
☐
☐
☐

Turn over ►



Study **Figure 2**, information about the heatwave and drought in the UK in 2022.

Figure 2

The summer of 2022

The UK experienced the driest nine-month period since 1916. The South East received just 74% of the long-term average rainfall for the period November to July. Hosepipe bans were in force across the country. Health alerts were issued. Crop yields were well below average.

Brighton Beach on 18 July 2022



Colliford Reservoir in Cornwall on 12 August 2022



0	1	.	4
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[6 marks]

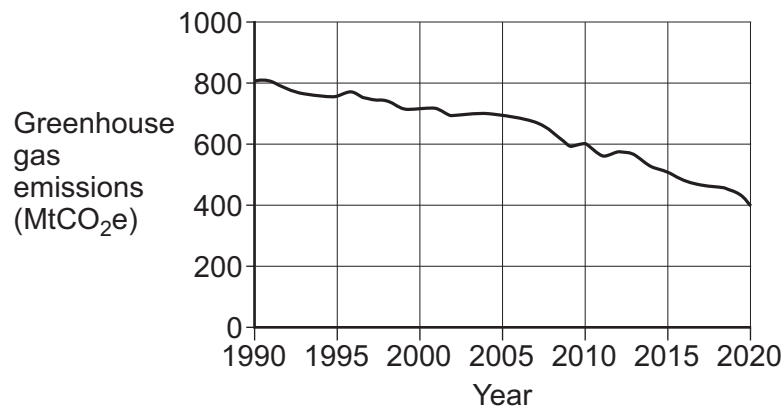
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Turn over ►



Study **Figure 3a** and **Figure 3b**, graphs showing greenhouse gas emissions in the UK between 1990 and 2020.

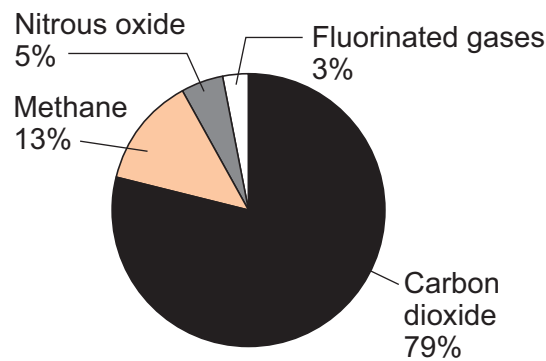
Figure 3a



MtCO₂e = million tonnes of carbon dioxide equivalent

Figure 3b

Greenhouse gas emissions, 2020



0 1 . 5 Using **Figure 3a**, describe changes in the UK's greenhouse gas emissions between 1990 and 2020.

[2 marks]



- 0 1 . 6** Using **Figure 3b**, compare emissions of carbon dioxide with emissions of methane in 2020.

[1 mark]

- 0 1 . 7** Suggest how an increase in greenhouse gases helps to cause climate change.

Shade **one** circle only.

[1 mark]

Greenhouse gases:

A allow heat from the earth to escape into space.

☐

B block incoming heat from the sun.

☐

C release heat into the atmosphere.

☐

D trap heat from the earth in the atmosphere.

☐

- 0 1 . 8** Explain how carbon capture may help to reduce the causes of climate change.

[2 marks]

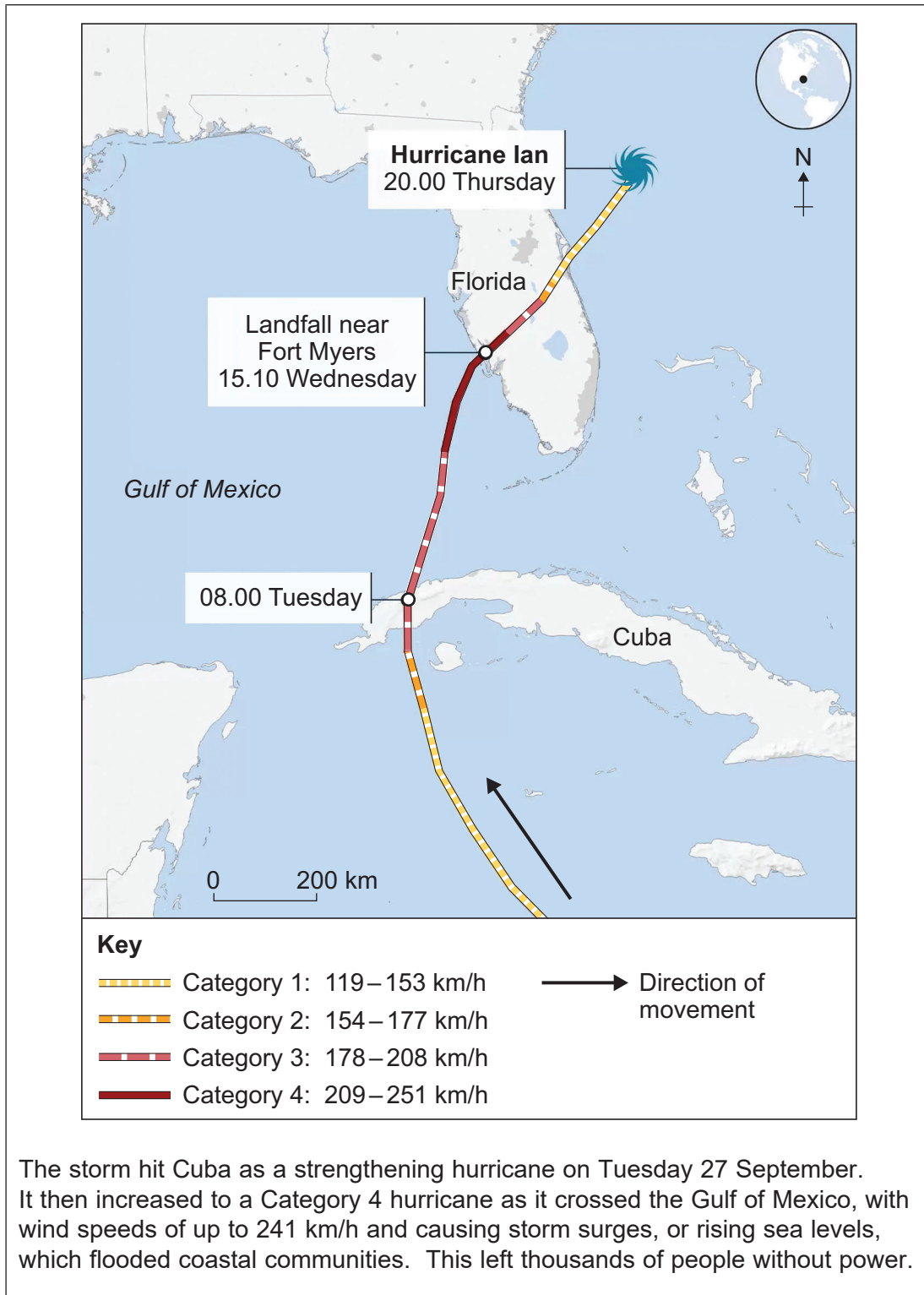
Question 1 continues on the next page

Turn over ►



Study **Figure 4**, a map showing the path of Hurricane Ian in September 2022.

Figure 4



0 1 . 9 Label **X** on **Figure 4** where Hurricane Ian became a Category 4 hurricane.

[1 mark]

0 1 . 1 0 Using **Figure 4**, state **one** social effect of Hurricane Ian on the local population.

[1 mark]

0 1 . 1 1 Explain how the effects of tropical storms can be reduced.

[4 marks]

Extra space

Question 1 continues on the next page

Turn over ►



Suggest how the effects of, **and** the responses to, a tectonic hazard vary between areas of contrasting wealth.

[9 marks]
[+ 3 SPaG marks]

[illegible]



33**End of Section A****Turn over for Section B****Turn over ►**

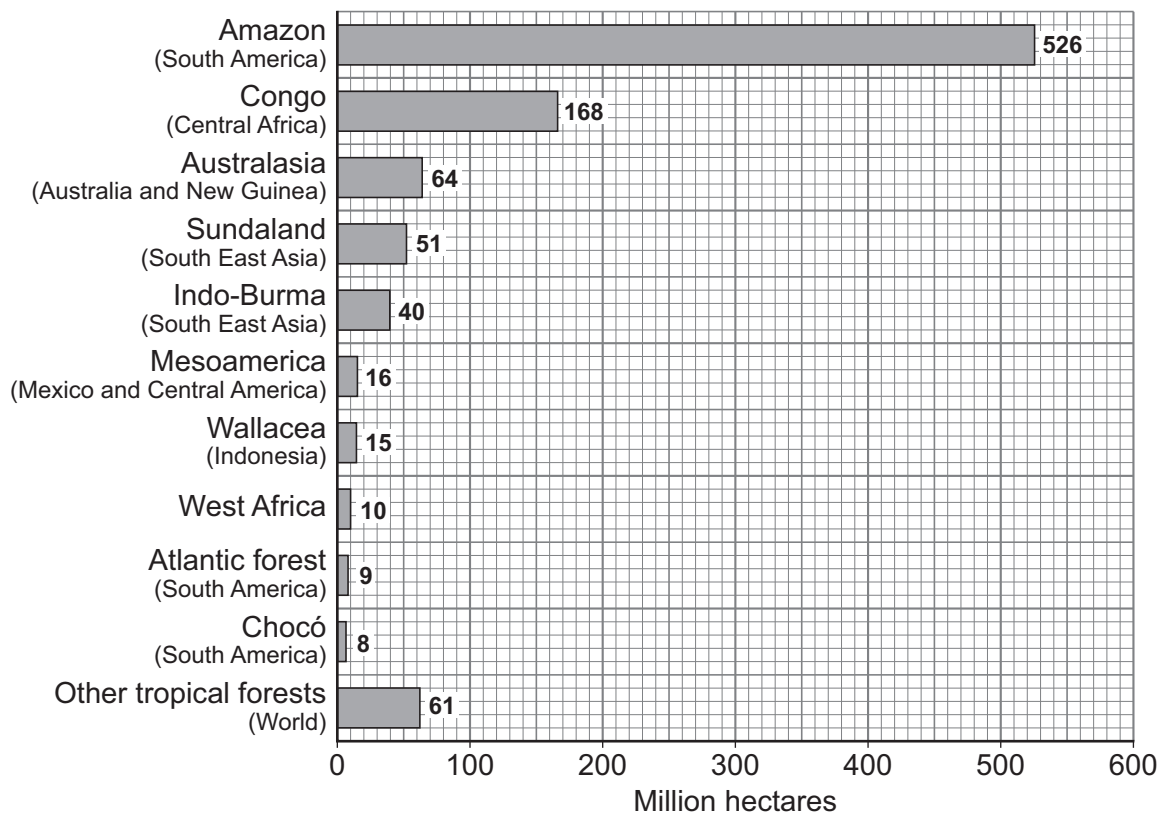
Section B The living world

Answer **all** questions in this section.

Question 2 The living world

Study **Figure 5**, a graph showing areas of the world covered by tropical rainforest in 2020.

Figure 5



0 2 . 1 Using **Figure 5**, name the second largest area of tropical rainforest.

[1 mark]

0 2 . 2 The total area covered by tropical rainforest in 2020 was 968 million hectares.

Using **Figure 5**, what percentage of the total area of tropical rainforest was found in the Amazon in 2020? Give your answer to **one** decimal place.

[1 mark]

_____ %



Study **Figure 6**, a photograph showing plants in the tropical rainforest.

Figure 6



- 0 2 . 3** Using **Figure 6** and your own knowledge, outline **two** ways that plants in the tropical rainforest are adapted to their environment.

[2 marks]

1 _____

2 _____

- 0 2 . 4** Give **one** way rainforest vegetation can support large numbers of animals.

[1 mark]

Question 2 continues on the next page

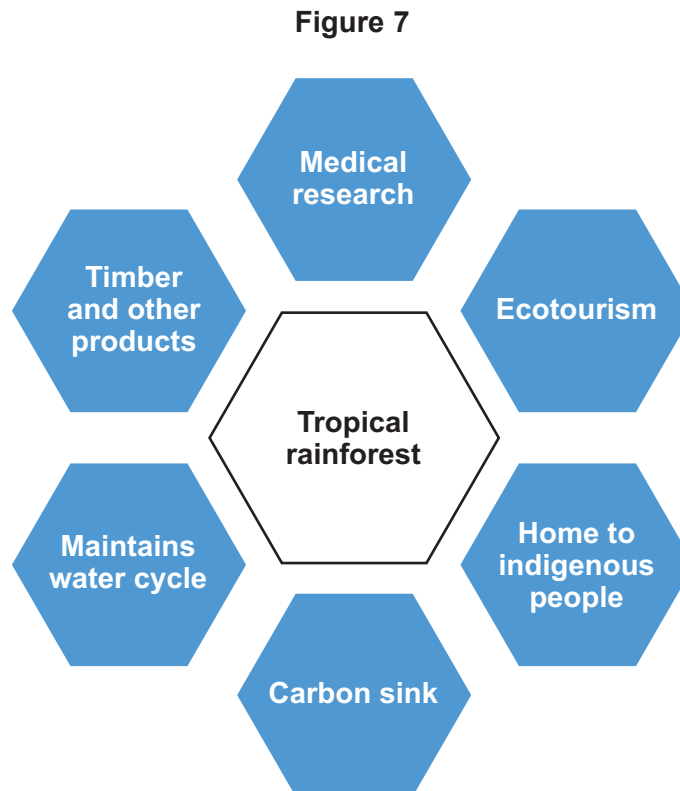
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0 2 . 5 Give **one** way climate affects the soils in tropical rainforests.

[1 mark]

Study **Figure 7**, a diagram showing some uses of the tropical rainforest.



0 2 . 6 'Tropical rainforests are of value to people and the environment.'

Discuss this statement.

Use **Figure 7** and your own understanding.

[6 marks]



Extra space

Question 2 continues on the next page

Turn over ►



Study **Figure 8a** and **Figure 8b**, climate graphs for a hot desert environment and a cold environment. **Figure 8c** shows the locations of Cairo and Aklavik.

Figure 8a

Cairo, Egypt 30°N of equator

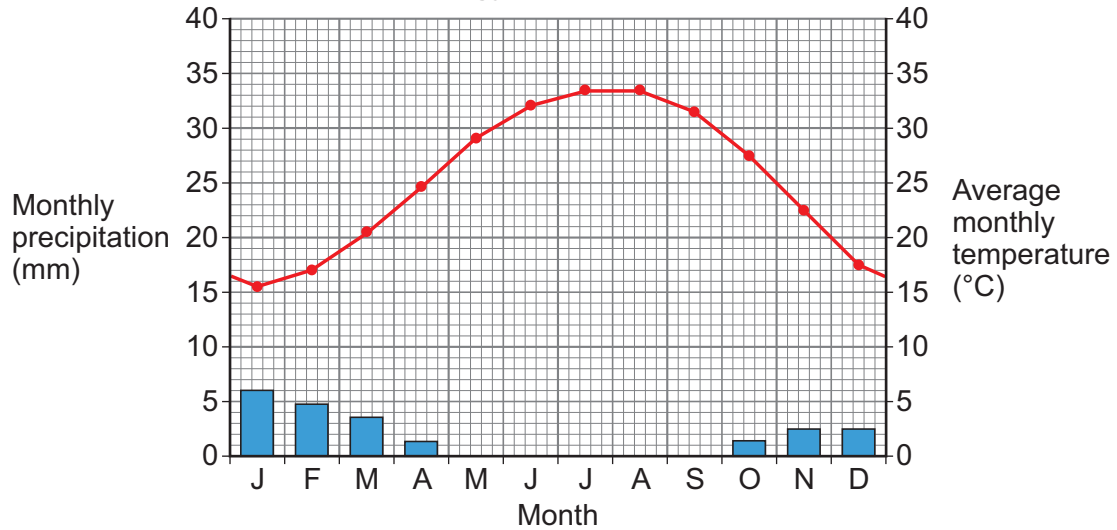
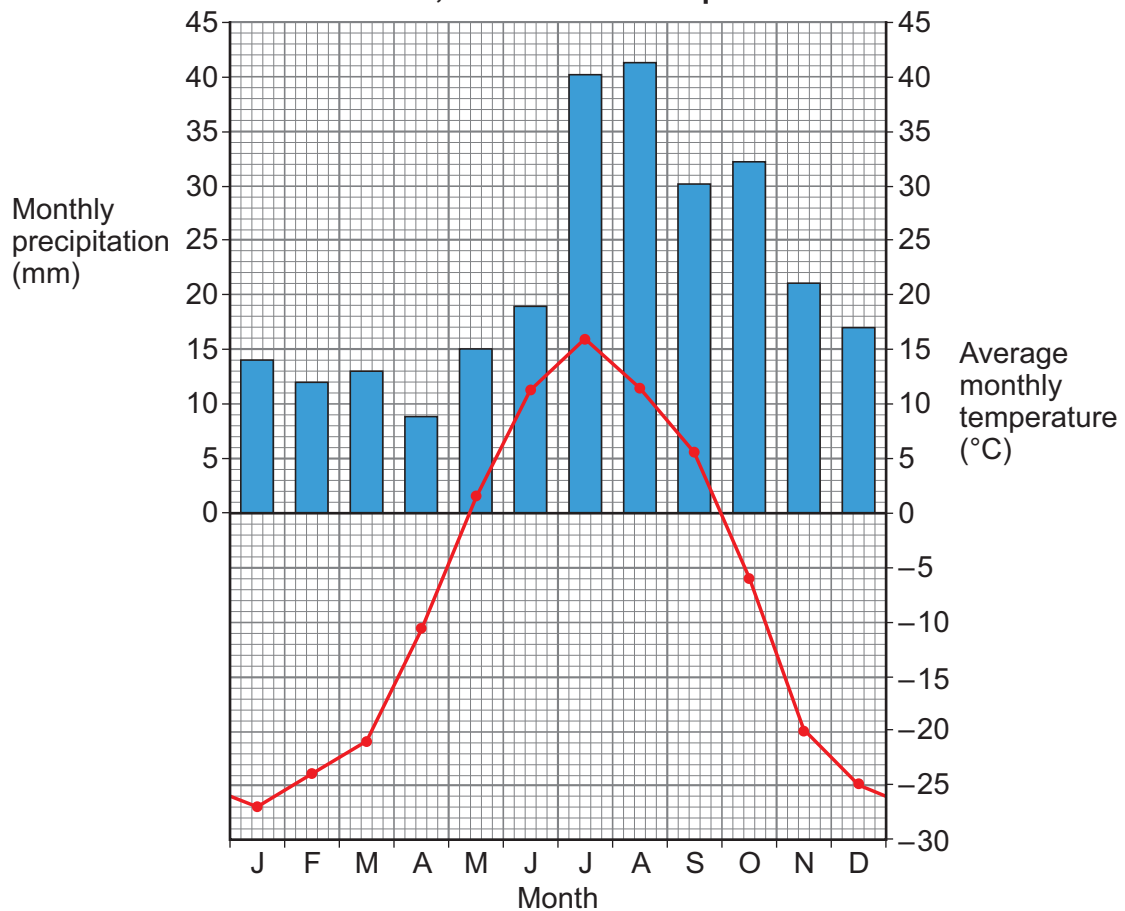


Figure 8b

Aklavik, Canada 68°N of equator



Key

■ Monthly precipitation (mm)

—●— Average monthly temperature (°C)



Figure 8c



0 2 . 7 Using **Figure 8b**, which month has the highest precipitation in Aklavik?

[1 mark]

0 2 . 8 Using **Figures 8a** and **8b**, which **one** of the following statements is correct?

Shade **one** circle only.

[1 mark]

A Precipitation in Cairo is highest in July and August.

☐

B The highest average monthly temperature in Cairo is lower than in Aklavik.

☐

C The range for average monthly temperature in Cairo is greater than in Aklavik.

☐

D Total precipitation is higher in Aklavik than in Cairo.

☐

0 2 . 9 Suggest **one** reason for the difference in temperature between Cairo and Aklavik.

[2 marks]

Question 2 continues on the next page

Turn over ►



0 2 . 1 0 Study either **Figure 9**, photographs showing some causes of desertification, or **Figure 10**, photographs showing some challenges of developing cold environments.

Figure 9
Causes of desertification

9a



9b



9c



Figure 10
Challenges of developing cold environments

10a



10b



10c



To what extent does human activity contribute to desertification in areas on the fringes of hot deserts?

[9 marks]

To what extent does the physical environment create challenges for development in cold environments?

[9 marks]

7

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End of Section B



Turn over for Section C

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Section C Physical landscapes in the UK

Answer **two** questions from the following:

Question 3 (Coasts), Question 4 (Rivers), Question 5 (Glacial).

Question 3 Coastal landscapes in the UK

0 3 . 1 Which term is used to describe the force of waves crashing into the cliffs?

Shade **one** circle only.

[1 mark]

A Abrasion

☐

B Attrition

☐

C Hydraulic power

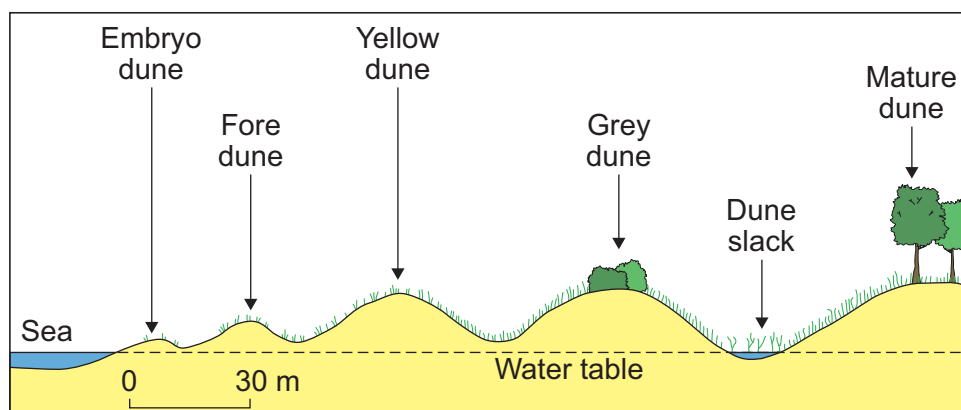
☐

D Solution

☐

Study **Figure 11**, a cross section of a coastal sand dune area, with vegetation and soil data.

Figure 11



Distance from sea (metres)	0	30	60	90	120	150	180	210
Percentage vegetation cover	0	25	75	80	70	95	100	100
Number of plant species	0	2	3	6	5	12	14	22
Soil pH (acidity)		8.5	8.4	8.2	7.2	7.0	7.5	6.5



0 3 . 2 Using **Figure 11**, calculate the median soil pH.

[1 mark]

0 3 . 3 Using **Figure 11**, describe changes in vegetation from the embryo dune to the mature dune.

[2 marks]

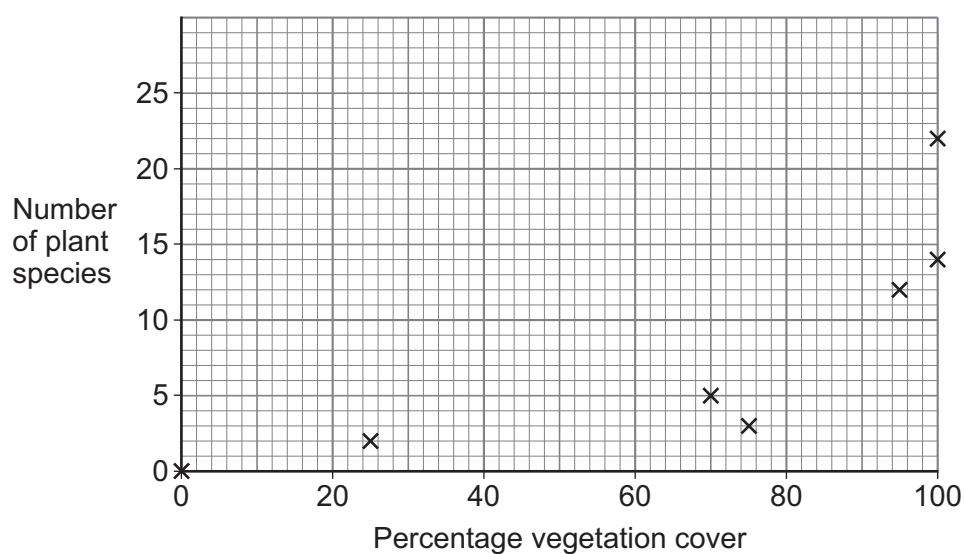
Figure 12 is a scattergraph showing percentage vegetation cover and number of plant species.

0 3 . 4 Plot the following data on **Figure 12**.

[1 mark]

Percentage vegetation cover	80
Number of plant species	6

Figure 12



Turn over ►



0 3 . 5 Explain how a stack is formed in a coastal landscape.

Use **one or more** labelled diagrams.

[4 marks]



Study **Figure 13**, photographs of hard engineering strategies used to manage the coastline.

Figure 13



Discuss the effectiveness of using hard engineering strategies to manage the coastline.

[6 marks]

Extra space _____

15

End of Question 3

Turn over ►



Question 4 River landscapes in the UK

- 0 4 . 1** Which term is used to describe the transportation process where pebbles are bounced along a river bed?

Shade **one** circle only.

[1 mark]

A Saltation

☐

B Solution

☐

C Suspension

☐

D Traction

☐

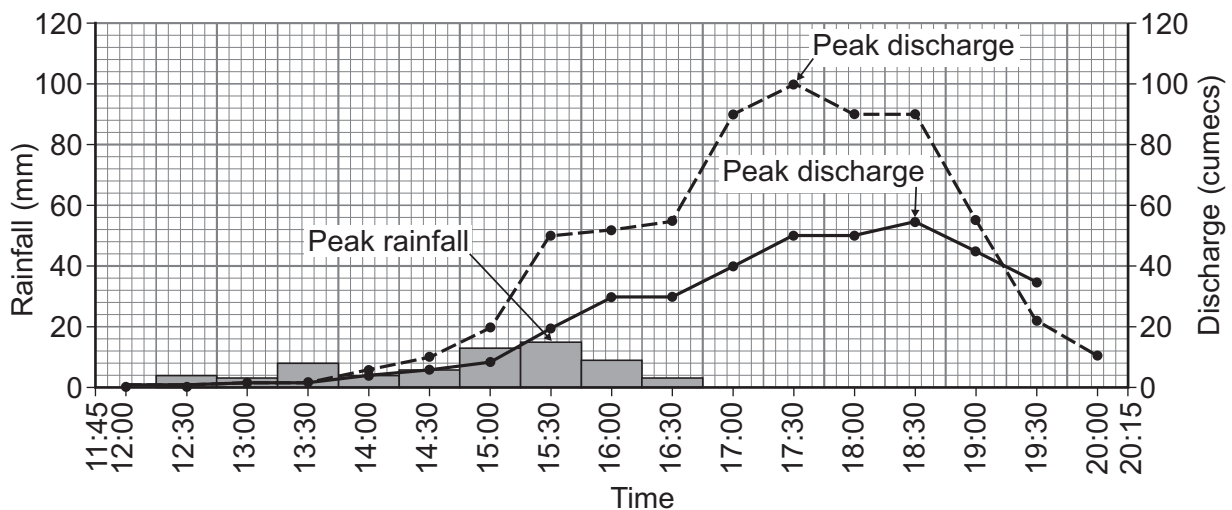
Figure 14 is a flood hydrograph for two different rivers after the same storm.

- 0 4 . 2** Complete the hydrograph for **River B** on **Figure 14** using the following data.

[1 mark]

Time	20:00
Discharge	20 cumecs

Figure 14



Key

■ Rainfall (mm) --- Discharge for River **A** (urban) — Discharge for River **B** (woodland)



0 4 . 3 What is the time difference between peak rainfall and peak discharge for **River A**?

Shade **one** circle only.

[1 mark]

A 1 hour

☐

B 2 hours

☐

C 3 hours

☐

D 4 hours

☐

0 4 . 4 Using **Figure 14**, describe **two** differences in the river discharge between **River A** and **River B**.

[2 marks]

1 _____

2 _____

Question 4 continues on the next page

Turn over ►



0 4 . 5 Explain how a waterfall is formed.

Use **one or more** labelled diagrams.

[4 marks]



Study **Figure 15**, photographs of soft engineering strategies used to manage river flooding.

Figure 15

Tree planting



Flood warning



Use **Figure 15** and your own understanding.

[6 marks]

Extra space _____

15

End of Question 4

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Question 5 Glacial landscapes in the UK

0 5 . 1 Which term is used to describe the process where a glacier moves forward and pushes material ahead of it?

Shade **one** circle only.

[1 mark]

- | | |
|--------------------------|-----------------------|
| A Abrasion | ☐ |
| B Bulldozing | ☐ |
| C Plucking | ☐ |
| D Rotational slip | ☐ |

Question 5 continues on the next page

Turn over ►



Study **Figure 16** and **Figure 17**.

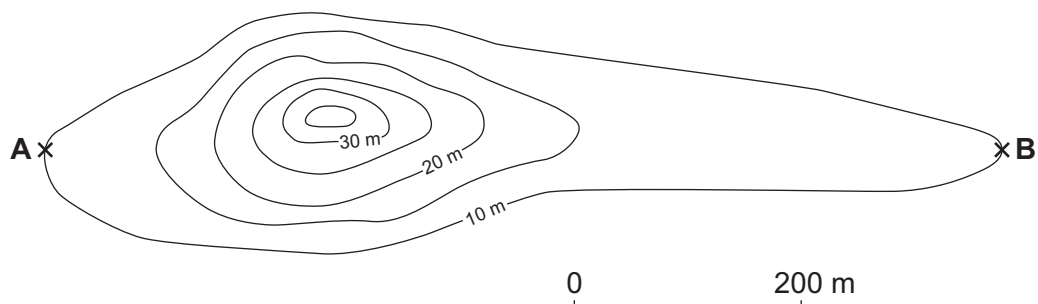
Figure 16 is a photograph of drumlins in a glaciated valley in the UK.

Figure 16



Figure 17 is a contour map of a drumlin.

Figure 17



0 5 . 2 Using **Figure 17**, what is the length of the drumlin from point **A** to point **B**?

[1 mark]

_____ metres

0 5 . 3 Use **Figure 16** or **Figure 17** to describe the shape of a drumlin.

[1 mark]

0 5 . 4 Outline **one** possible conflict between tourists and farmers in the area shown in **Figure 16**.

[2 marks]

Question 5 continues on the next page

Turn over ►



0 5 . 5 Explain how a corrie is formed.

Use **one or more** labelled diagrams.

[4 marks]



Study **Figure 18**, photographs of strategies used to manage the impacts of tourism in a glaciated area.

Figure 18



Repairing paths in the Lake District



The Park and Sail scheme in the Lake District encourages tourists to travel by boat rather than by car

Discuss how different strategies are used to manage the impacts of tourism in glaciated areas in the UK.

[6 marks]

Extra space _____

15

END OF QUESTIONS



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[illegible]

[illegible]

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