Surname _____

Forename(s) _____

Centre Number _____

Candidate Number _____

Candidate Signature _____

I declare this is my own work.

GCSE
GEOGRAPHY

Paper 1 Living with the physical environment

8035/1

Wednesday 14 May 2025 Morning

Time allowed: 1 hour 30 minutes

At the top of the page, write your surname and forename(s), your centre number, your candidate number and add your signature.

[Turn over]

JUN258035101

MATERIALS

For this paper you must have:

- **the insert (enclosed)**
- **a pencil**
- **a rubber**
- **a ruler.**

You may use a calculator.

INSTRUCTIONS

- **Use black ink or black ball-point pen.**
- **Answer ALL questions in Section A AND Section B.**
- **Answer TWO questions in Section C.**
  Question 3 (Coasts)
  Question 4 (Rivers)
  Question 5 (Glacial)
- **You must answer the questions in the spaces provided. Do NOT write on blank pages.**

- If you need 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.

DO NOT TURN OVER UNTIL TOLD TO DO SO

BLANK PAGE

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.

[Turn over]

BLANK PAGE

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**

[Turn over]

Study FIGURE 1 below, 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.
[1 mark]

_____ °C

[Turn over]

0 1 . 3

Using FIGURE 1, on page 8, 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.

Study FIGURE 2, on pages 2, 3 and 4 of the insert, information about the heatwave and drought in the UK in 2022.

0 1 . 4

Suggest how extreme weather in the UK can have social and economic impacts.

Use FIGURE 2 and your own understanding. [6 marks]

[Turn over]

Study FIGURE 3a and FIGURE 3b, on pages 6 and 7 of the insert, graphs showing greenhouse gas emissions in the UK between 1990 and 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]

[Turn over]

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]

FIGURE 4

Hurricane Ian
20.00 Thursday
N
Florida
Landfall near
Fort Myers
15.10
Wednesday
Gulf of Mexico
08.00
Tuesday
Cuba
0 200 km

KEY

Category 1: 119 – 153 km/h
Category 2: 154 – 177 km/h
Category 3: 178 – 208 km/h
Category 4: 209 – 251 km/h
→ Direction of movement

The storm hit Cuba as a strengthening hurricane on Tuesday 27 September. It then increased to a Category 4 hurricane as it crossed the Gulf of Mexico, with wind speeds of up to 241 km/h and causing storm surges, or rising sea levels, which flooded coastal communities. This left thousands of people without power.

[Turn over]

Study FIGURE 4, on page 18, a map showing the path of Hurricane Ian in September 2022.

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]

BLANK PAGE

[Turn over]

0 1 . 1 1

Explain how the effects of tropical storms can be reduced. [4 marks]

[Turn over]

0 1 . 1 2

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

Use ONE OR MORE named examples in your answer. [9 marks] [+ 3 SPaG marks]

[Turn over]

33

[End of Section A]

[Turn over]

SECTION B The living world

Answer ALL questions in this section.

QUESTION 2 The living world

Study FIGURE 5, on pages 8 and 9 of the insert, a table showing areas of the world covered by tropical rainforest in 2020.

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]

_____ %

[Turn over]

Study FIGURE 6, on page 10 of the insert, a photograph showing plants in the tropical rainforest.

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]

0 2 . 5

Give ONE way climate affects the soils in tropical rainforests. [1 mark]

Study FIGURE 7, on page 11 of the insert, 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]

[Turn over]

Study FIGURE 8a and FIGURE 8b, on pages 12 and 13 of the insert, climate graphs for a hot desert environment and a cold environment. FIGURE 8c, on page 14 of the insert, shows the locations of Cairo and Aklavik.

0 2 . 7

Using FIGURE 8b, which month has the highest precipitation in Aklavik? [1 mark]

_____

_____

[Turn over]

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]

0 2 . 1 0

Study either FIGURE 9, on pages 16, 17 and 18 of the insert, photographs showing some causes of desertification, or FIGURE 10, on pages 19, 20 and 21 of the insert, photographs showing some challenges of developing cold environments.

EITHER (HOT DESERTS)

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

Use FIGURE 9 and your own understanding. [9 marks]

OR (COLD ENVIRONMENTS)

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

Use FIGURE 10 and your own understanding. [9 marks]

Tick (✓) the box to show which environment you have chosen.

☐ **Hot desert environment (FIGURE 9)**

☐ **Cold environment (FIGURE 10)**

[Turn over]

[Turn over]

25

[End of Section B]

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

[Turn over]

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, on pages 22 and 23 of the insert, a cross section of a coastal sand dune area, with vegetation and soil data.

0 3 . 2

Using FIGURE 11, calculate the median soil pH. [1 mark]

[Turn over]

0 3 . 3

Using FIGURE 11, describe changes in vegetation from the embryo dune to the mature dune. [2 marks]

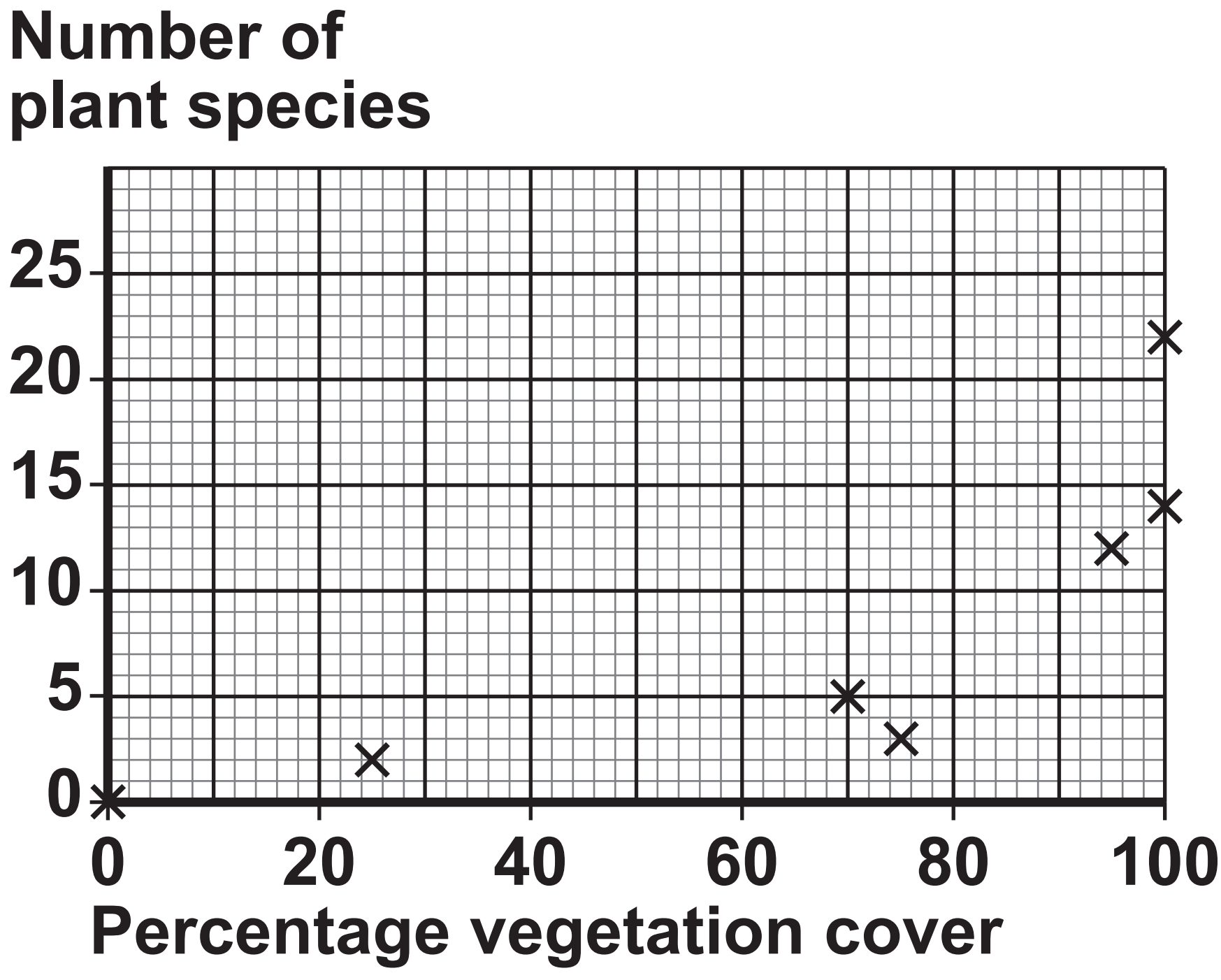
FIGURE 12, below, is a scattergraph showing percentage vegetation cover and number of plant species.

0 3 . 4

Plot the following data on FIGURE 12.
[1 mark]

Percentage vegetation cover	80
Number of plant species	6

FIGURE 12



0 3 . 5

Explain how a stack is formed in a coastal landscape.

Use ONE OR MORE labelled diagrams.
[4 marks]

[Turn over]

Study FIGURE 13, on pages 24 and 25 of the insert, photographs of hard engineering strategies used to manage the coastline.

0 3 . 6

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

Use FIGURE 13 and your own understanding. [6 marks]

[Turn over]

15

[End of Question 3]

QUESTION 4 River landscapes in the UK

0 4 . 1

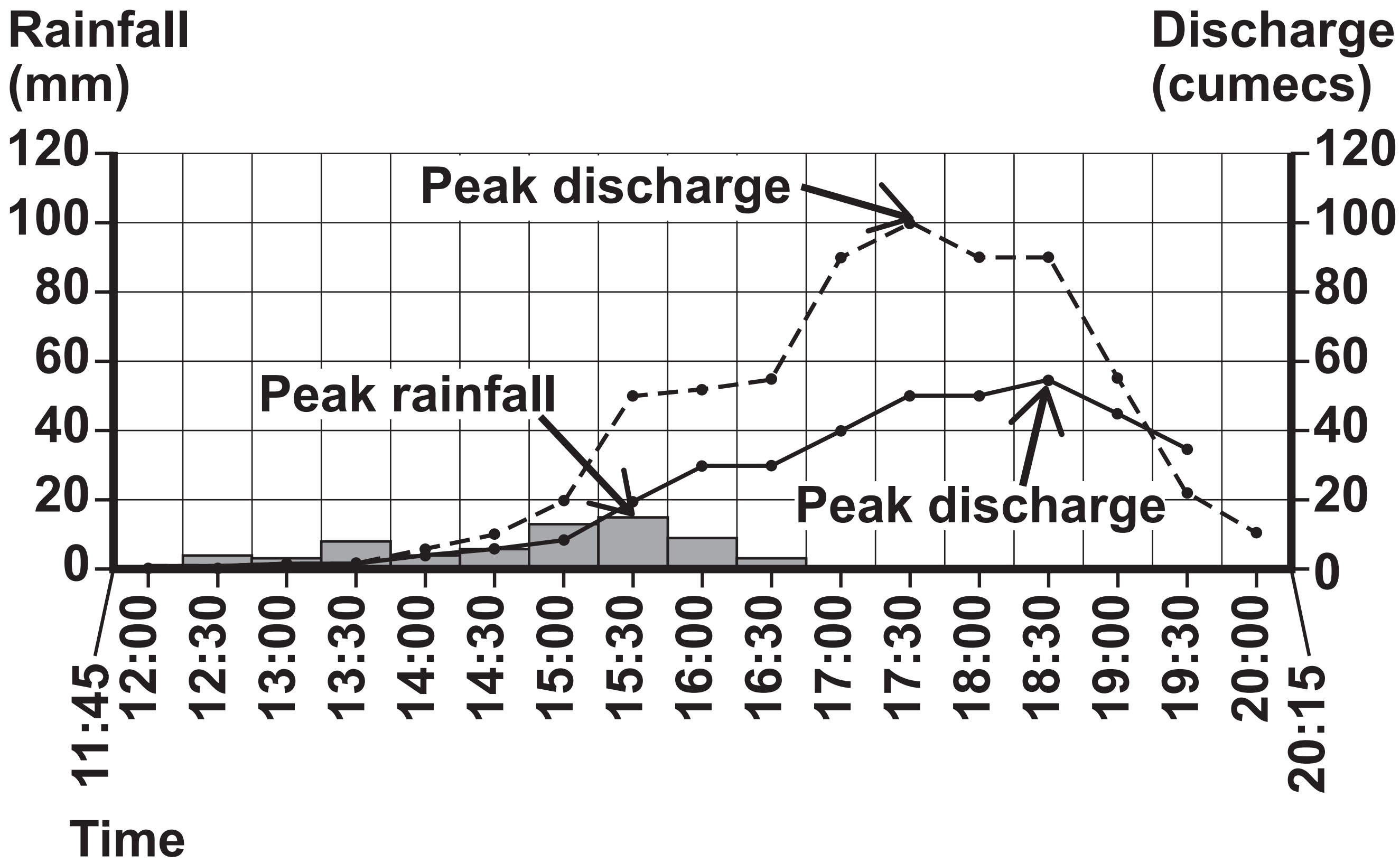
Which term is used to describe the transportation process where pebbles are bounced along a river bed?

Shade ONE circle only. [1 mark]

- ○ **A Saltation**
- ○ **B Solution**
- ○ **C Suspension**
- ○ **D Traction**

[Turn over]

FIGURE 14


Rainfall
(mm)
Discharge
(cumecs)
120
100
80
60
40
20
0
Peak discharge
Peak rainfall
Peak discharge
11:45
12:00
12:30
13:00
13:30
14:00
14:30
15:00
15:30
16:00
16:30
17:00
17:30
18:00
18:30
19:00
19:30
20:00
20:15
Time

KEY

▭ Rainfall (mm)

--- Discharge for River A (urban)

—— Discharge for River B (woodland)

FIGURE 14, on page 54 and above, 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

[Turn over]

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, on pages 54 and 55, describe TWO differences in the river discharge between RIVER A and RIVER B. [2 marks]

1 _____

_____

_____

2 _____

_____

_____

[Turn over]

0 4 . 5

Explain how a waterfall is formed.

Use ONE OR MORE labelled diagrams.
[4 marks]

[Turn over]

Study FIGURE 15, on pages 26 and 27 of the insert, photographs of soft engineering strategies used to manage river flooding.

0 4 . 6

Discuss the costs AND benefits of using soft engineering to manage river flooding.

Use FIGURE 15 and your own understanding. [6 marks]

[Turn over]

15

[End of Question 4]

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**

[Turn over]

Study FIGURE 16 and FIGURE 17, on pages 28 and 29 of the insert.

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

FIGURE 17 is a contour map of a drumlin.

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]

0 5 . 5

Explain how a corrie is formed.

Use ONE OR MORE labelled diagrams.
[4 marks]

[Turn over]

Study FIGURE 18, on pages 30 and 31 of the insert, photographs of strategies used to manage the impacts of tourism in a glaciated area.

0 5 . 6

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

Use FIGURE 18 and your own understanding. [6 marks]

[Turn over]

15

END OF QUESTIONS

Additional page, if required.
Write the question numbers in the left-hand margin.

Additional page, if required.
Write the question numbers in the left-hand margin.

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

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