

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

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- the OS key insert (enclosed)
- 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.

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 **01.11**.



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. 

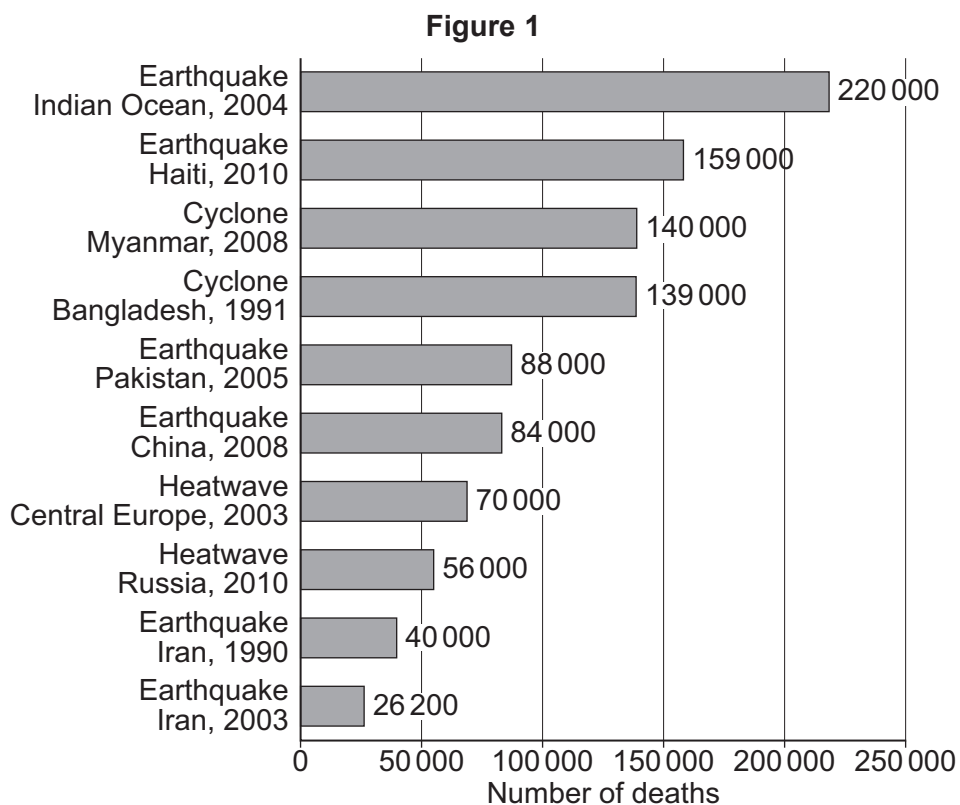
If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown. 

Section A The challenge of natural hazards

Answer **all** questions in this section.

Question 1 The challenge of natural hazards

Study **Figure 1**, a graph showing the deadliest natural disasters between 1990 and 2018.



0 1 . 1 Using **Figure 1**, which natural disaster caused the greatest number of deaths?

[1 mark]



0	1	.	2
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[1 mark]

- 

0	1	.	3
---	---	---	---

[6 marks]

[illegible]

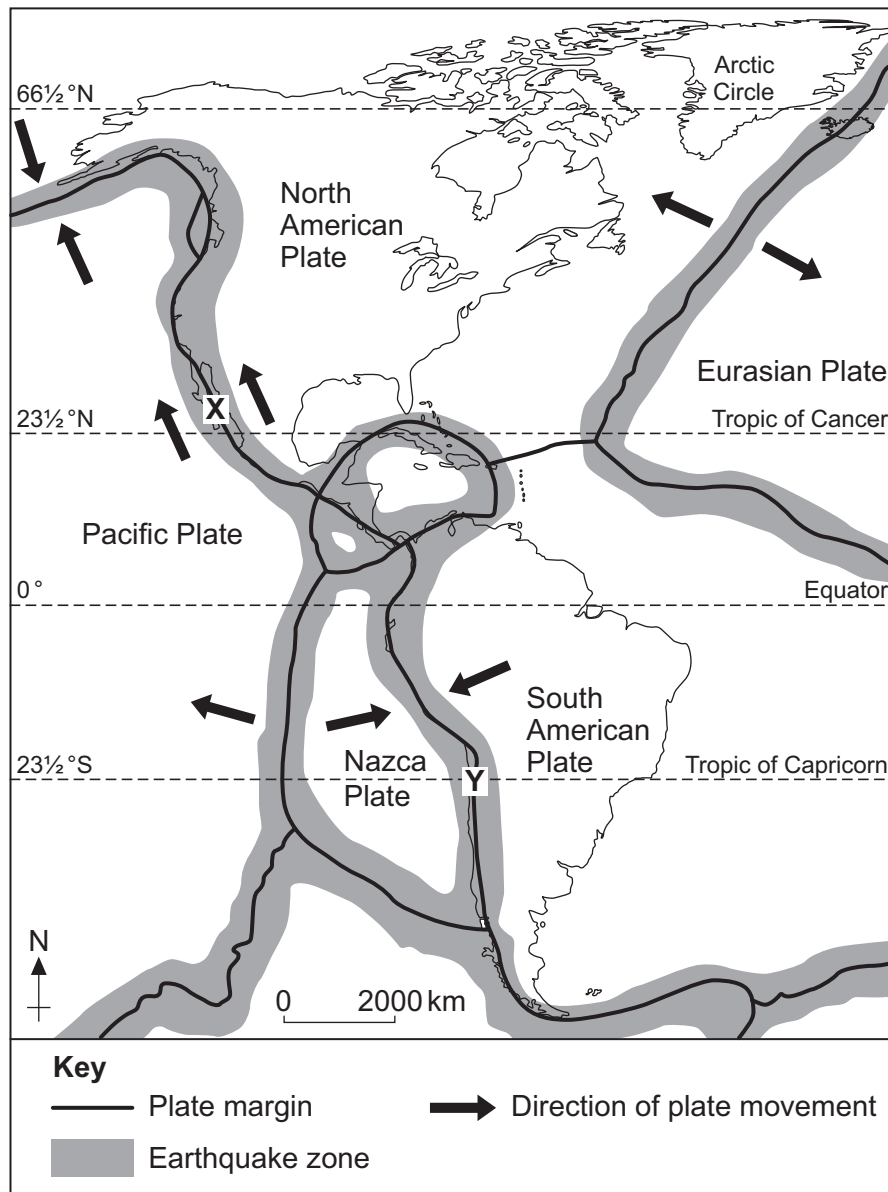
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Study **Figure 2**, a map showing the tectonic plates in and around North America and South America.

Figure 2



0 1 . 4 Using **Figure 2**, which **one** of the following statements is true?

Shade **one** circle only.

[1 mark]

- A** The Nazca Plate is moving towards the Pacific Plate.
- B** Earthquakes are found in long narrow zones along plate margins.
- C** Earthquakes are mainly found along the eastern sides of continents.
- D** The North American Plate is moving away from the Pacific Plate.

☐
☐
☐
☐


0 1 . 5 Using **Figure 2**, name the type of plate margin at **X**.

[1 mark]

0 1 . 6 Suggest why earthquakes and volcanic eruptions happen close to the plate margin at **Y**.

Use **Figure 2** and your own understanding.

[4 marks]

Extra space

0 1 . 7 State **two** ways that planning might help to reduce the damaging effects of an earthquake or a volcanic eruption.

[2 marks]

1

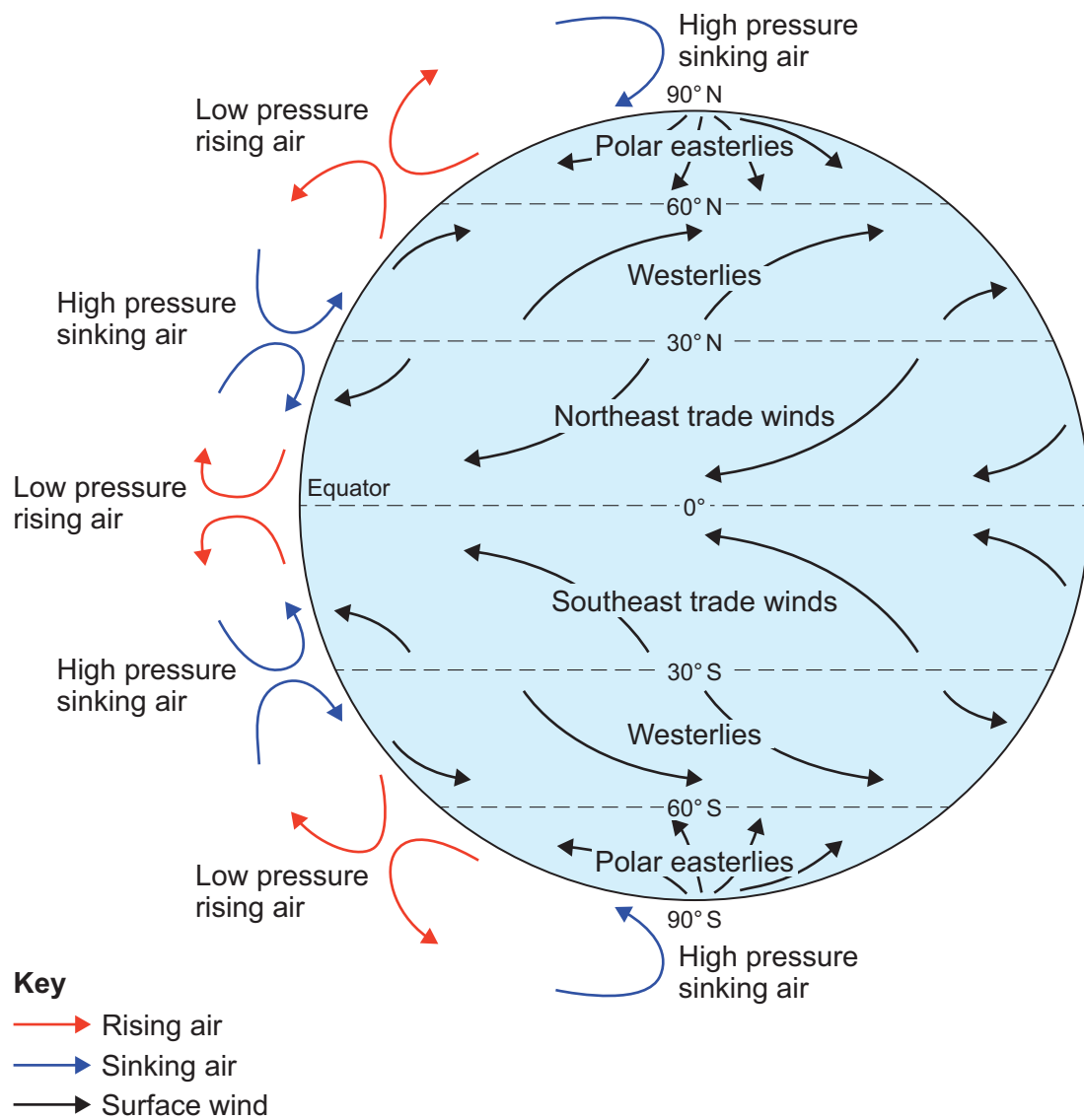
2

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Study **Figure 3**, a diagram showing the global pattern of air pressure and surface winds.

Figure 3



0 1 . 8 Using **Figure 3**, which **one** of the following statements is true?

Shade **one** circle only.

[1 mark]

A Air sinks at the Equator.

☐

B The southeast trade winds blow from the Equator to 30° N and S.

☐

C High pressure occurs where the air is sinking.

☐

D Polar easterlies blow from 60° N and S towards the poles.

☐

0 1 . 9 Using **Figure 3**, describe the link between air pressure and surface winds.

[2 marks]

0 1 . 1 0 Suggest why areas close to the Equator usually have high rainfall.

Use **Figure 3** and your own understanding.

[2 marks]

Question 1 continues on the next page

Turn over ►



Study **Figure 4**, photographs showing some causes of climate change.

Figure 4



0 1 . 1 1 To what extent is climate change the result of human actions?

Use **Figure 4** and your own understanding.

[9 marks]
[+ 3 SPaG marks]



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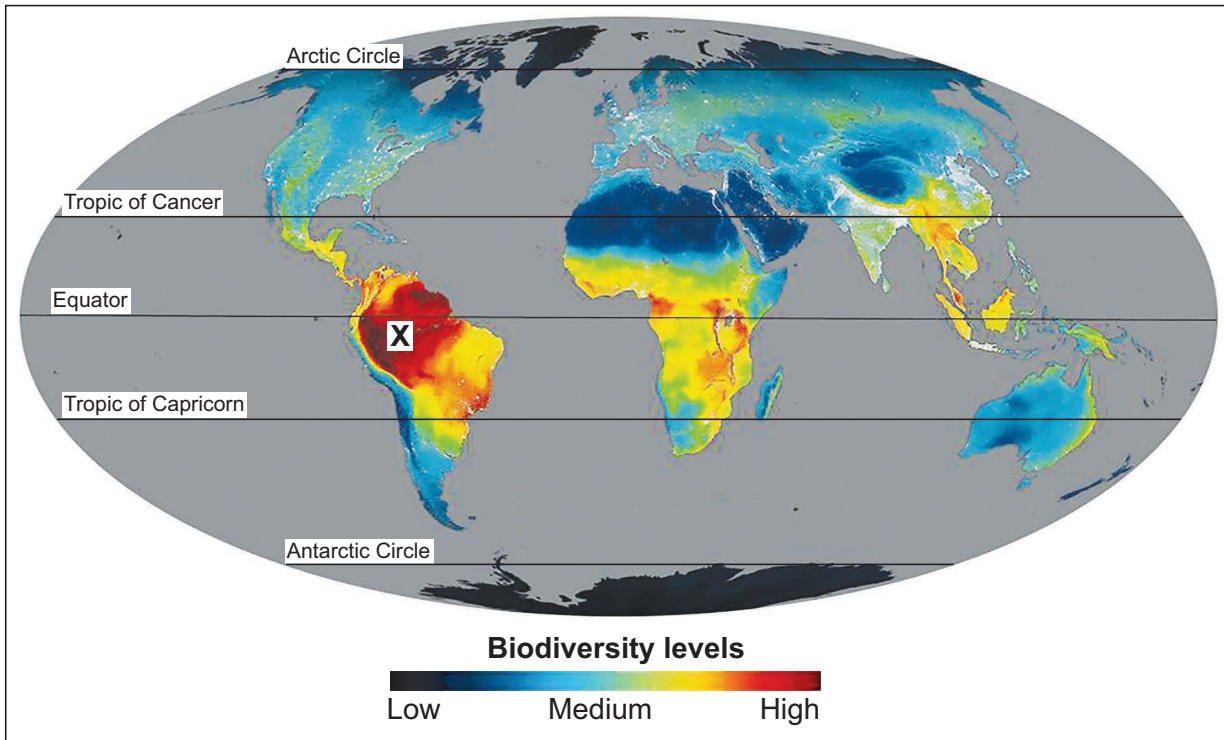
Section B The living worldAnswer **all** questions in this section.**Question 2 The living world****0 2 . 1** Which **one** of the following phrases defines the term biodiversity?Shade **one** circle only.**[1 mark]**

- A** How living things affect each other and the environment.
- B** The number and types of plants and animals that live in an area.
- C** Energy flows between living things when they eat or are eaten.
- D** How plants and animals are adapted to their habitats.

☐☐☐☐

Study **Figure 5**, a world map showing global biodiversity levels.

Figure 5



0 2 . 2 Using **Figure 5**, describe the location of areas with low biodiversity levels.

[2 marks]

0 2 . 3 Using **Figure 5**, suggest **one** reason for the high biodiversity levels in area **X**.

[2 marks]

Question 2 continues on the next page

Turn over ►



0 2 . 4

Outline **one** way that plants are adapted to the climate in **either** hot deserts **or** cold environments.

[2 marks]

0 2 . 5

Assess the importance of inaccessibility **and** extreme temperatures as challenges to development in **one** of the following environments.

Hot desert environment**Cold environment**

Use a case study and your own understanding.

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

Hot desert environment

☐

Cold environment

☐

[6 marks]



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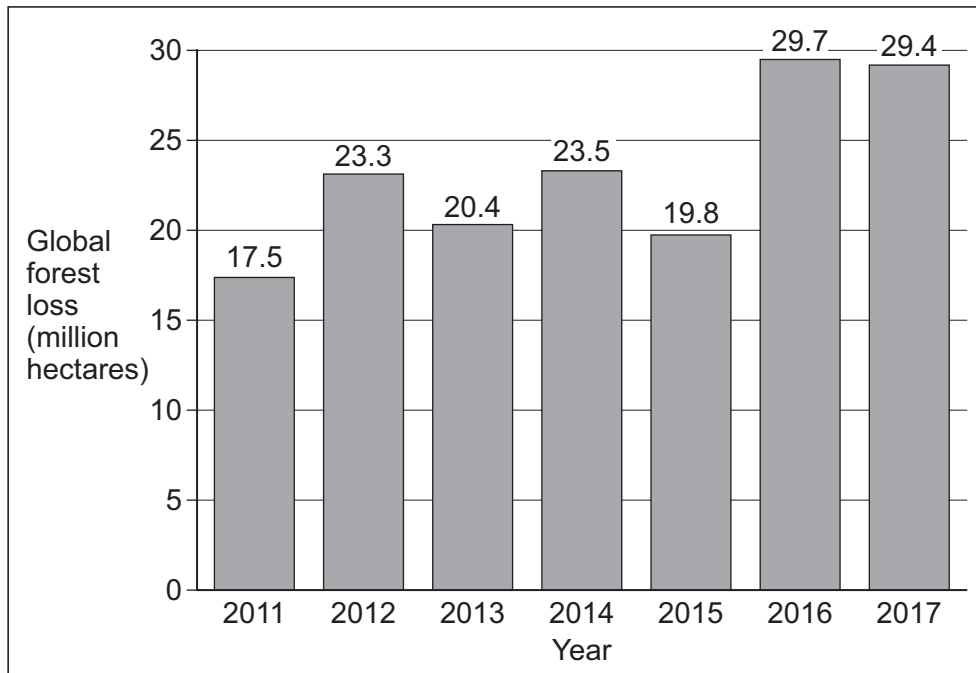
Question 2 continues on the next page

Turn over ►



Study **Figure 6**, a graph showing global forest loss from 2011 to 2017.

Figure 6



0 2 . 6 Using **Figure 6**, calculate the mean global forest loss from 2011 to 2017.

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

[1 mark]

_____ million hectares



0 2 . 7 Calculate the percentage change in global forest loss between 2011 and 2017.

Shade **one** circle only.

[1 mark]

A 62%

☐

B 68%

☐

C 74%

☐

D 80%

☐

0 2 . 8 State **one** way that debt reduction can help to make tropical rainforests more sustainable.

[1 mark]

Question 2 continues on the next page

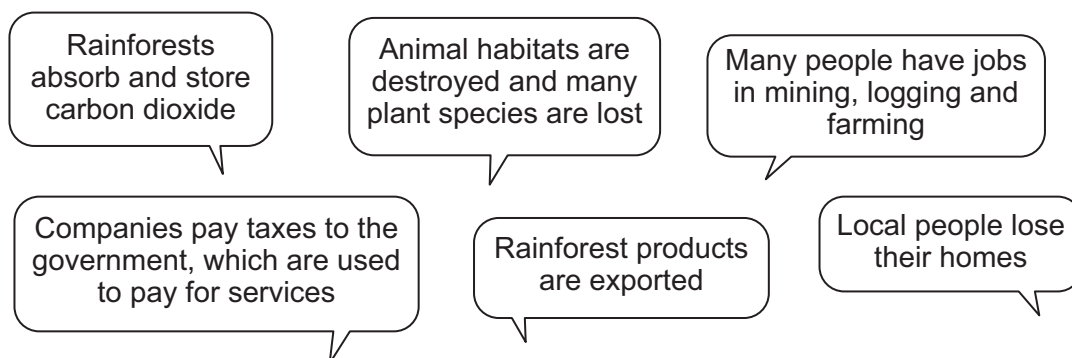
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Study **Figure 7**, statements about deforestation in an LIC or NEE.

Figure 7



0 2 . 9 'Tropical rainforests should be protected from economic development.'

Do you agree?

Explain your answer.

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

[9 marks]

[illegible]

Extra space

25

End of Section B**Turn over ►**

Section C Physical landscapes in the UK

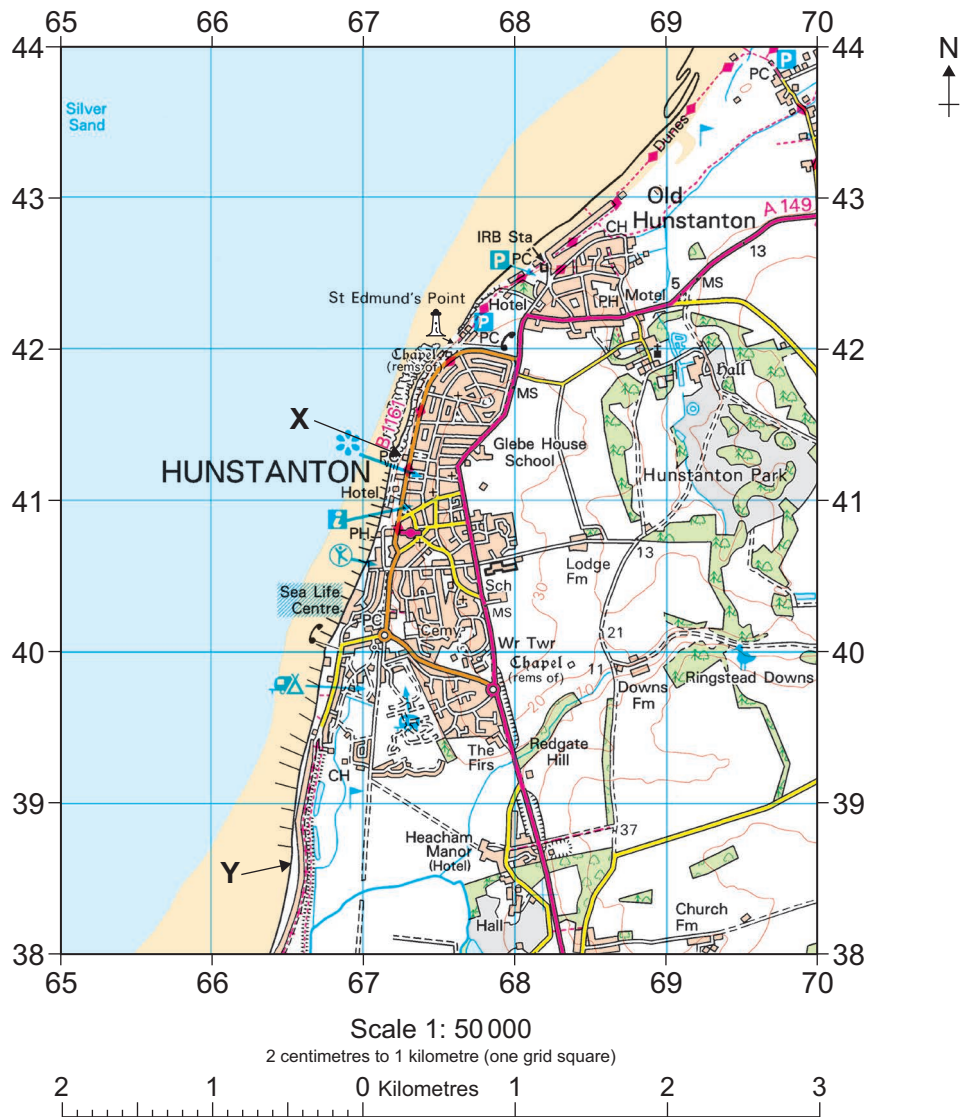
Answer **two** questions from the following:

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

Question 3 Coastal landscapes in the UK

Study **Figure 8**, a 1:50 000 Ordnance Survey map of part of the coastline in Norfolk.

Figure 8



0 3 . 1 Using **Figure 8**, how long is the coastline between points **X** and **Y**?

Shade **one** circle only.

[1 mark]

A 2.4 km

☐

B 2.8 km

☐

C 3.2 km

☐

D 3.6 km

☐

0 3 . 2 Using **Figure 8**, what direction would you be facing from the lighthouse at 676421 to the dunes at 690433?

[1 mark]

0 3 . 3 Using **Figure 8**, describe **one** piece of evidence which suggests that Hunstanton is a tourist resort.

[2 marks]

Question 3 continues on the next page

Turn over ►



Study **Figure 9**, a photograph taken along the stretch of coastline shown in **Figure 8**.

Figure 9



0 3 . 4 Suggest **one** type of mass movement that is affecting these cliffs.

[1 mark]



0 3 . 5 Explain the formation of a spit.

[4 marks]

Extra space

Question 3 continues on the next page

Turn over ►



Study **Figure 10** and **Figure 11**, photographs showing soft engineering strategies.

Figure 10 – Beach nourishment



Figure 11 – Dune regeneration



Use **Figure 10** and **Figure 11** and your own understanding.

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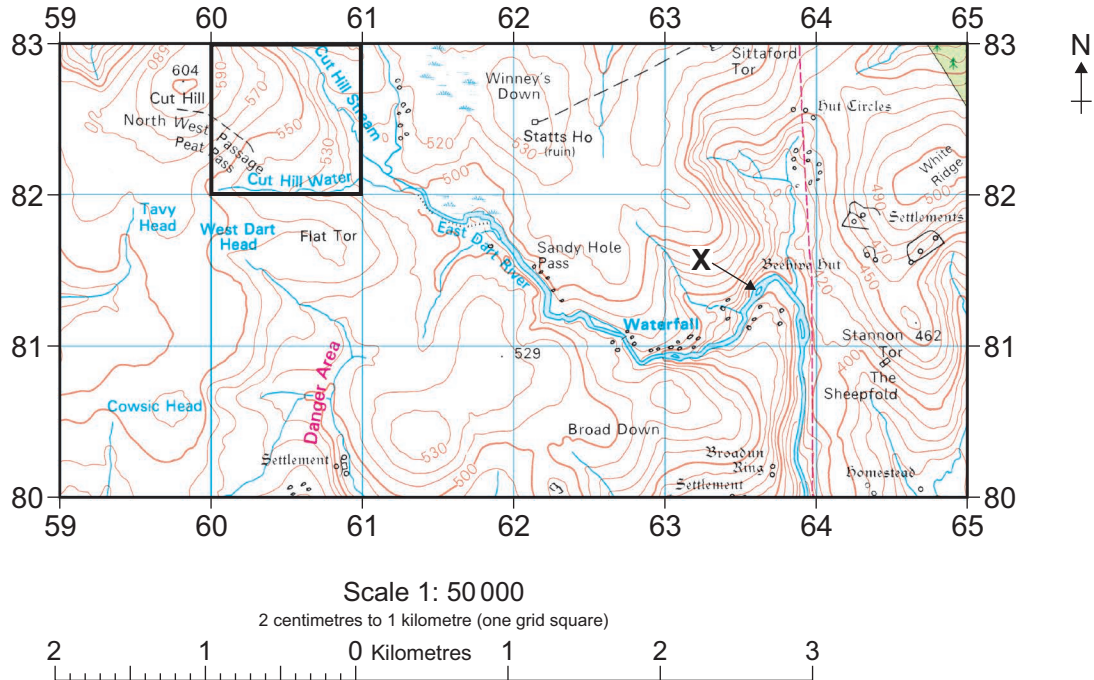
End of Question 3

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Question 4 River landscapes in the UK

Study **Figure 12**, a 1:50 000 Ordnance Survey map of part of Dartmoor National Park.

Figure 12

0 4 . 1 Using **Figure 12**, identify a feature of the East Dart River at 627811.

[1 mark]

0 4 . 2 Describe the relief (height and shape of the land) in the highlighted grid square 6082.
[2 marks]



Study **Figure 13**, a photograph of the East Dart River taken looking upstream from point **X** on **Figure 12**.

Figure 13



- 0 4 . 3** Using **Figure 12** and **Figure 13**, which direction was the photographer facing when the picture was taken?

Shade **one** circle only.

[1 mark]

A North east

☐

B East

☐

C South

☐

D South west

☐

- 0 4 . 4** Suggest **one** way that the river valley shown in **Figure 13** may change as it goes downstream.

[1 mark]

Question 4 continues on the next page

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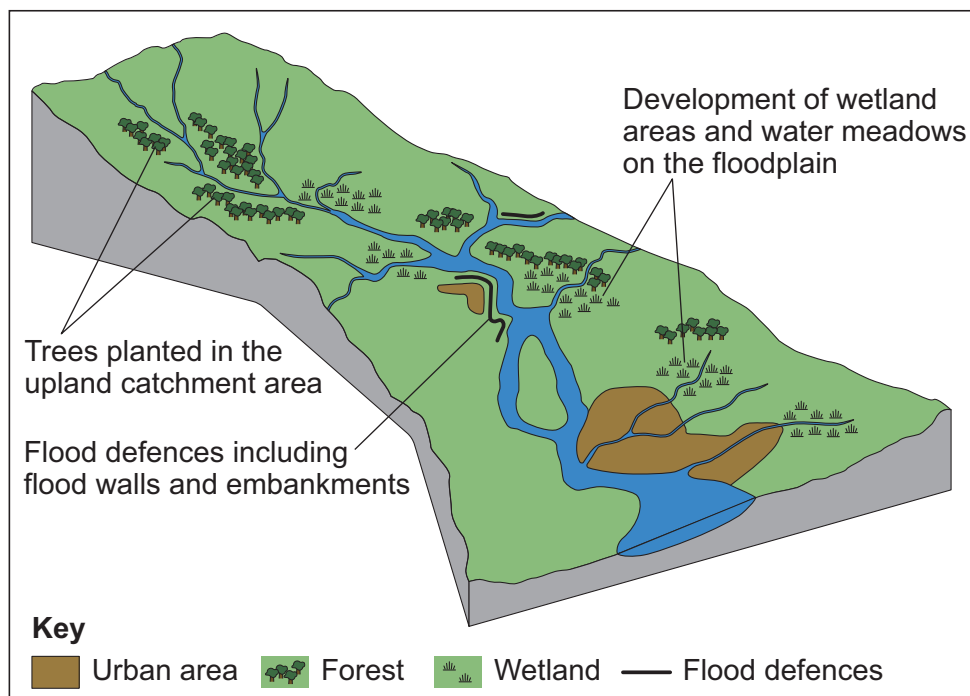
0 4 . 5 Explain the formation of an ox-bow lake.

[4 marks]

Extra space

Study **Figure 14**, a diagram showing flood management strategies.

Figure 14



Discuss how flood management strategies may have impacts on people and the environment.

[6 marks]

[illegible]

15

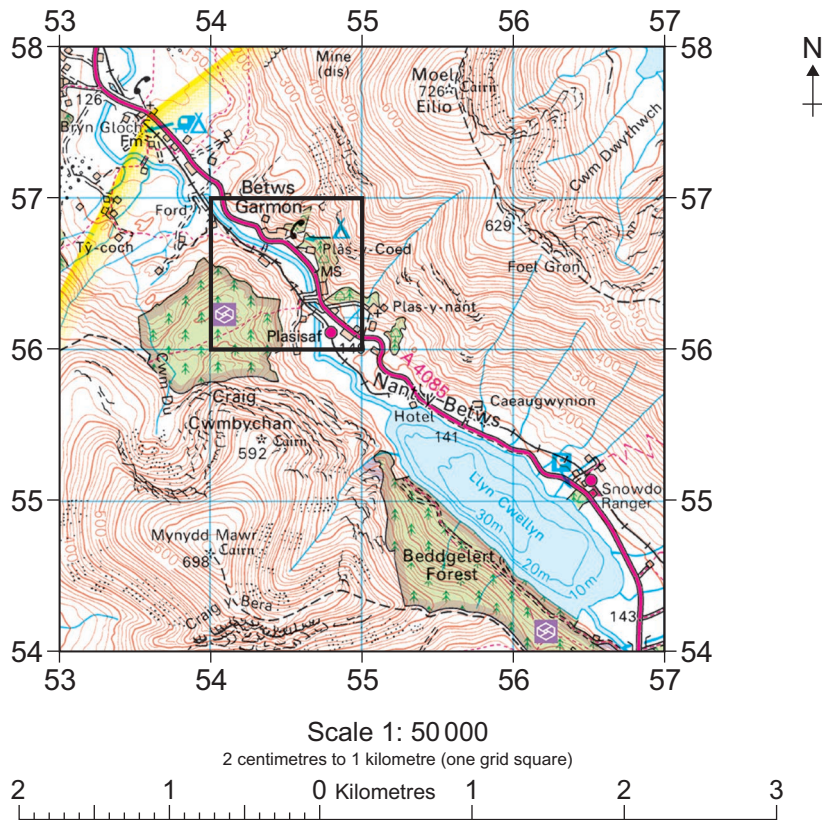
End of Question 4

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Question 5 Glacial landscapes in the UK

Study **Figure 15**, a 1:50 000 Ordnance Survey map showing part of Snowdonia in Wales.

Figure 15

- 0 5 . 1** Using **Figure 15**, what is the difference in height between the spot height at 556577 and the spot height at 532577?

[1 mark]

_____ metres

- 0 5 . 2** Using **Figure 15**, describe the land use shown in the highlighted grid square 5456.

[2 marks]



Study **Figure 16**, a photograph looking north west across Llyn Cwellyn shown on **Figure 15**.

Figure 16



0 5 . 3 Using **Figure 15** and **Figure 16**, identify the grid square where point **X** is located.

Shade **one** circle only.

[1 mark]

A 5555

☐

B 5354

☐

C 5654

☐

D 5554

☐

0 5 . 4 Using **Figure 16**, suggest **one** piece of evidence that shows this area was glaciated.

[1 mark]

Turn over ►



0 5 . 5 Explain the formation of a hanging valley.

[4 marks]

Extra space

Study **Figure 17**, information about the Snowdon Sherpa bus service.

Figure 17

The Snowdon Sherpa is a bus service that travels around the foot of Snowdon. The bus service links the six main routes that go up Mount Snowdon, as well as the main car parks, villages and tourist attractions in the area.



Discuss the success of strategies used to manage the impacts of tourism in glaciated upland areas.

[6 marks]

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15

END OF QUESTIONS



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