AQA

Please write clearly in block capitals.

Centre number | | | | | | Candidate number | | | | |

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**.

Do not write outside the box

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.

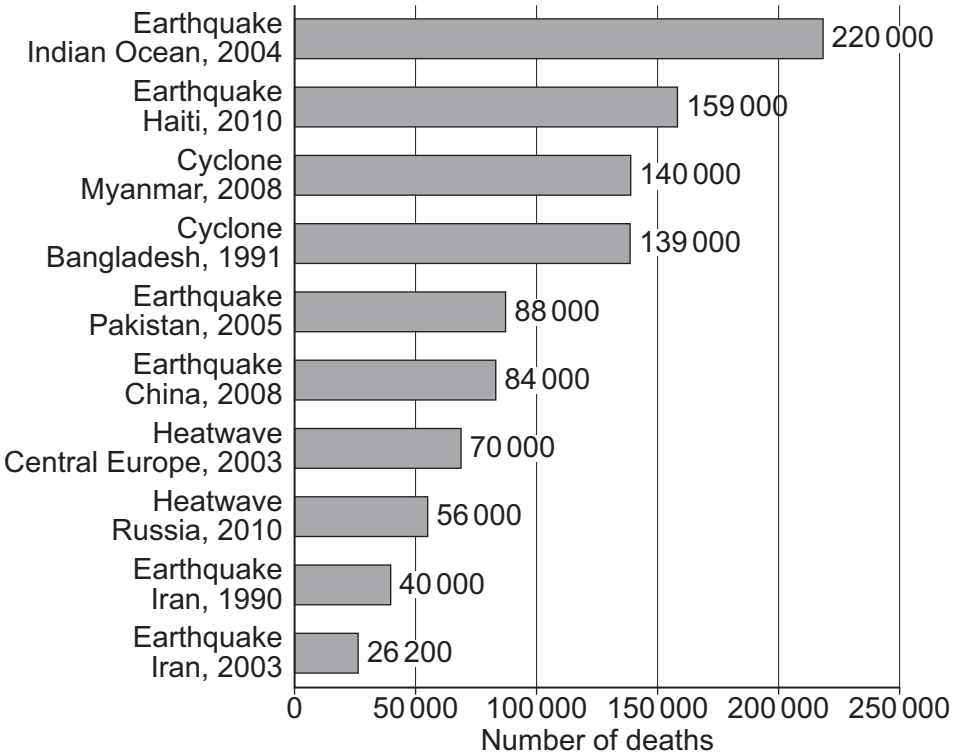
Section A The challenge of natural hazards

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.

Figure 1



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

[1 mark]

_____

Do not write outside the box

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

Shade **one** circle only.

[1 mark]

A The two earthquakes in Iran caused 92 000 deaths. ⬭

B The cyclone in Bangladesh killed more people than the cyclone in Myanmar. ⬭

C The two heatwaves in Central Europe and Russia resulted in 126 000 deaths. ⬭

D The earthquake in China killed more people than the earthquake in Pakistan. ⬭

0 1 . 3 Explain how living in areas that are at risk from a tectonic hazard(s) may have both advantages and disadvantages.

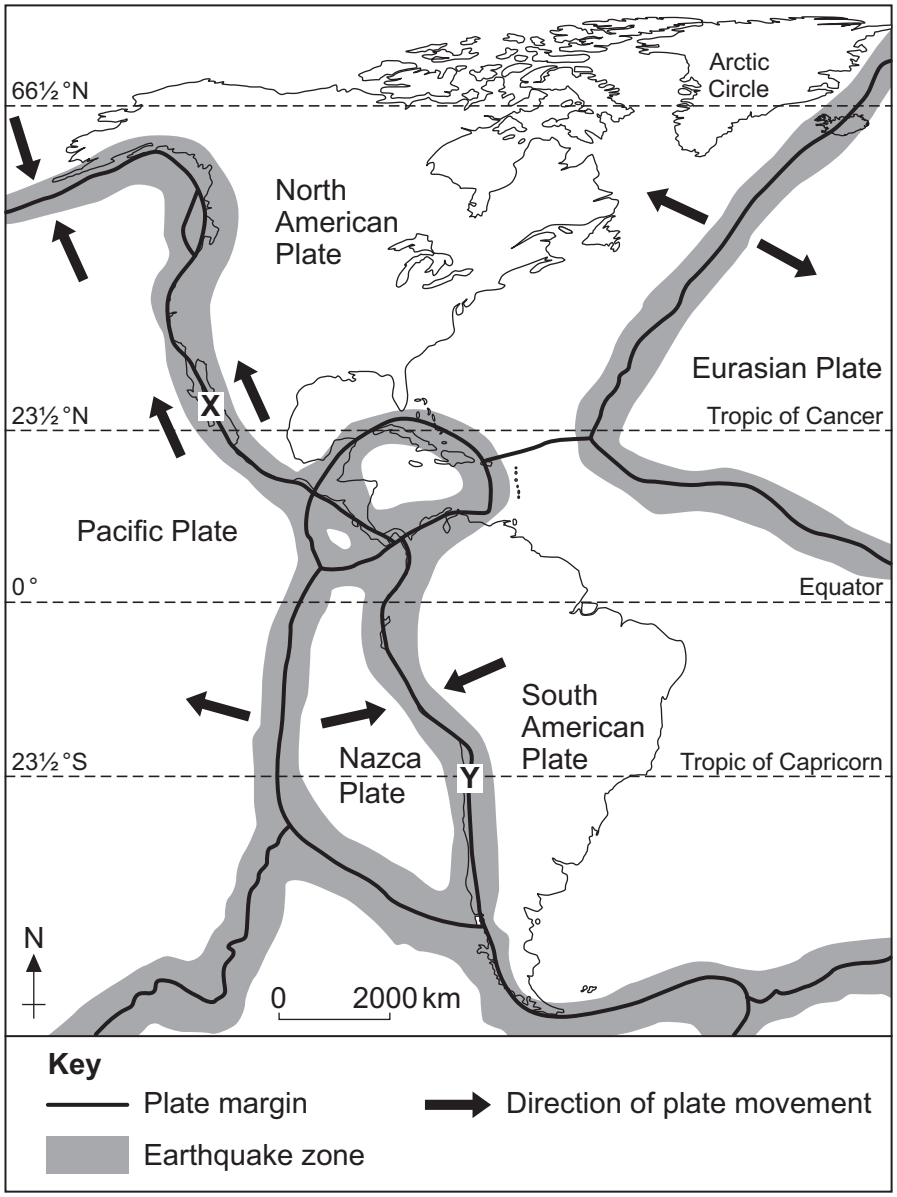
[6 marks]

Extra space

Do not write outside the box

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. ⬭

Do not write outside the box

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 _____

_____

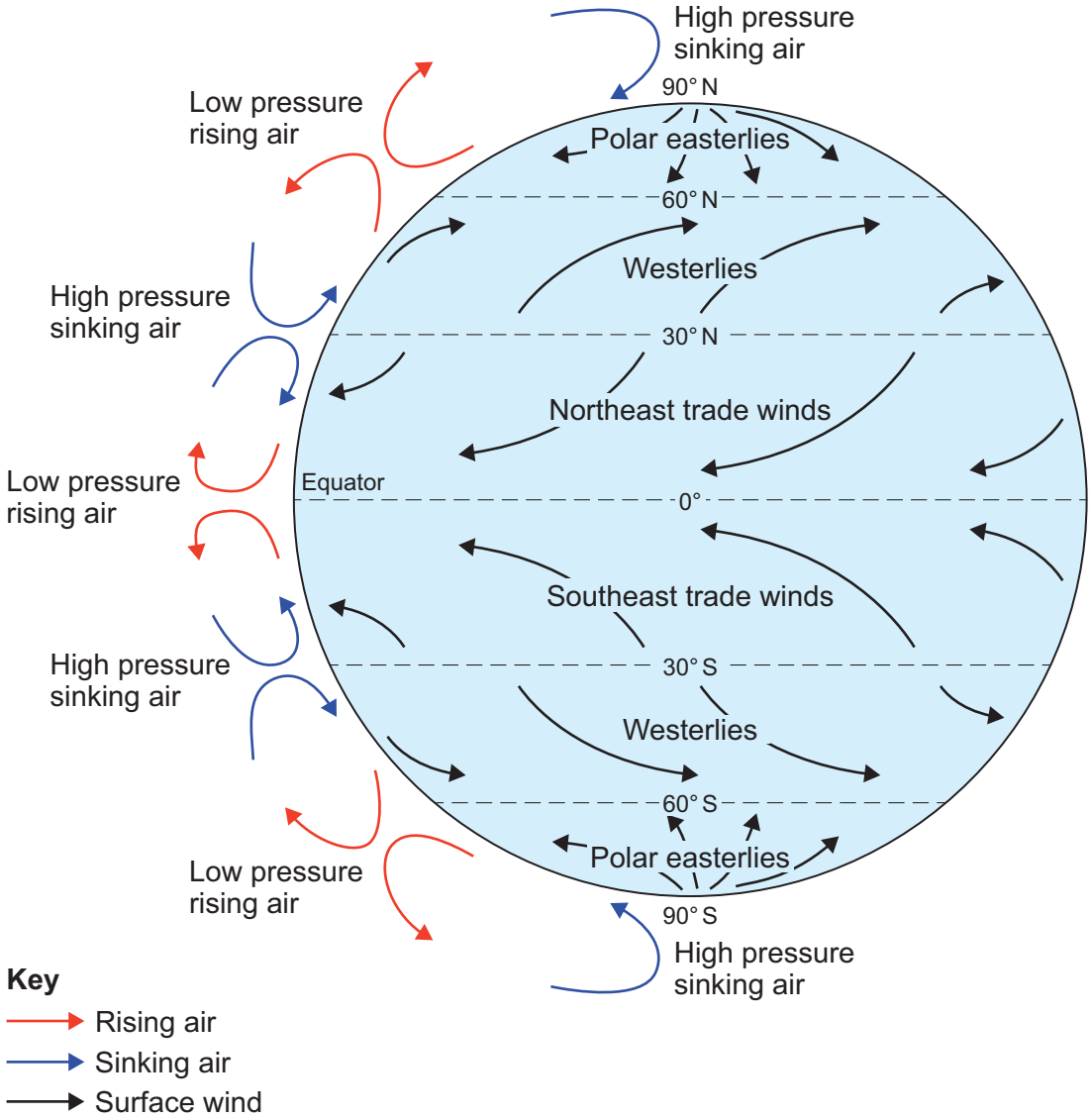
2 _____

_____

Do not write outside the box

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

Figure 3



Do not write outside the box

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 30º N and S. ⬭

C High pressure occurs where the air is sinking. ⬭

D Polar easterlies blow from 60º 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

Do not write outside the box

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]

Do not write outside the box

Extra space

33

End of Section A

Do not write outside the box

Section B The living world

Answer **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. ⬭

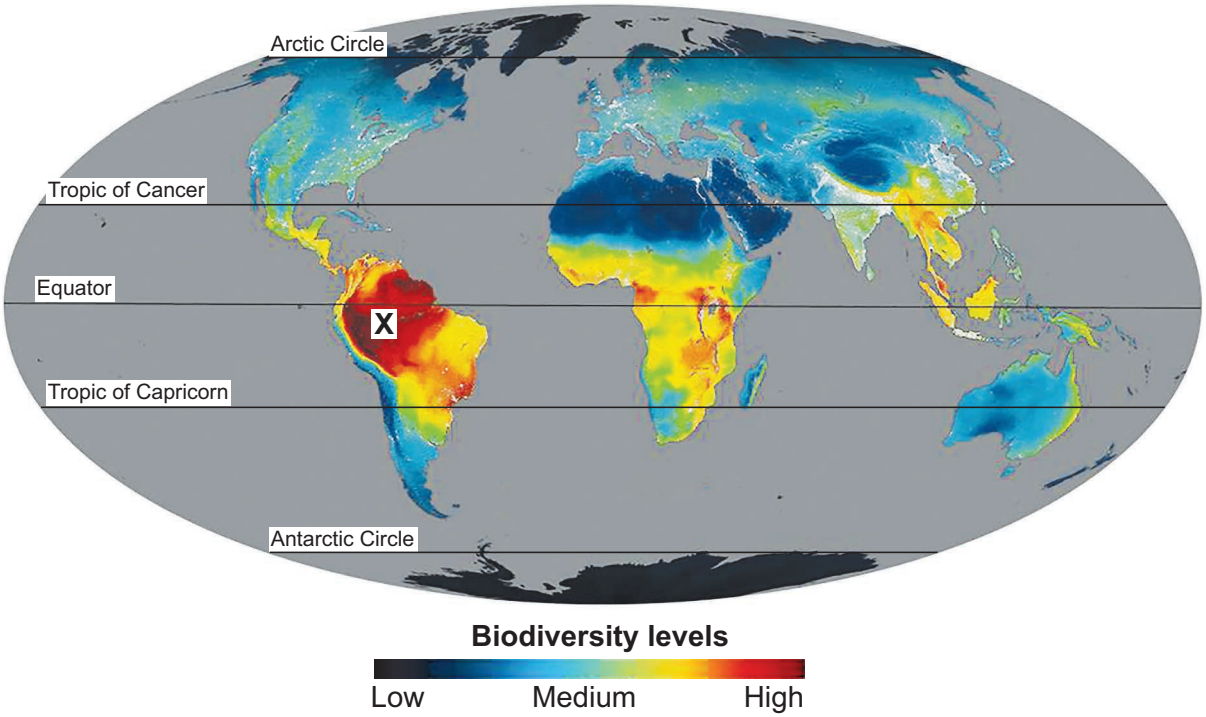
C Energy flows between living things when they eat or are eaten. ⬭

D How plants and animals are adapted to their habitats. ⬭

Do not write outside the box

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

Do not write outside the box

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]

Do not write outside the box

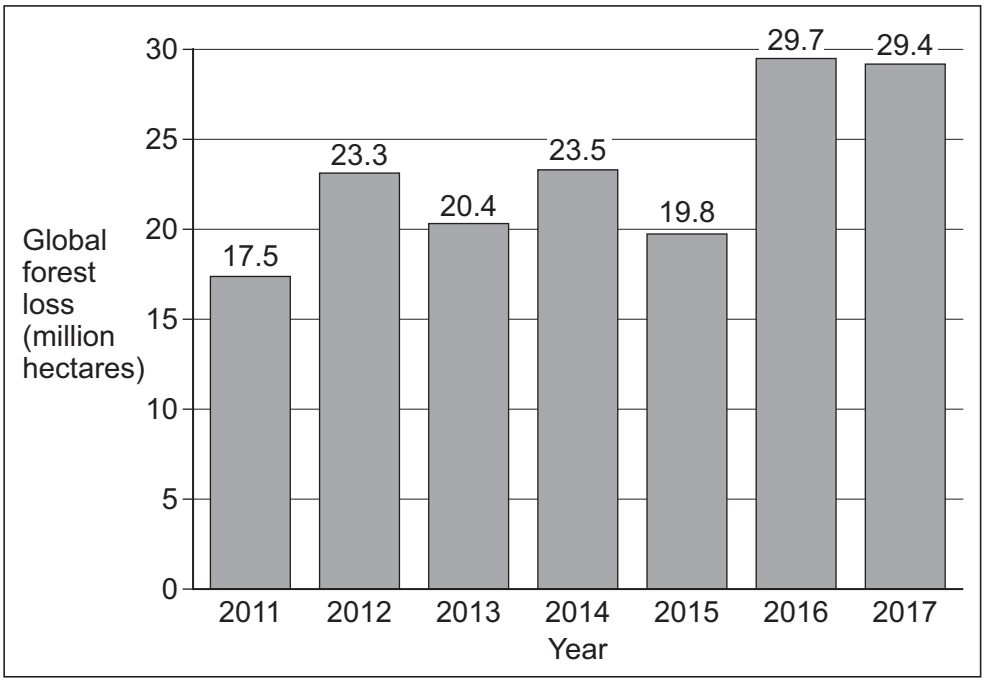
Extra space

Question 2 continues on the next page

Do not write outside the box

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

Do not write outside the box

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

Do not write outside the box

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]

Do not write outside the box

Extra space

25

End of Section B

Do not write outside the box

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

Do not write outside the box

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

Do not write outside the box

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]

_____

Do not write outside the box

0 3 . 5 Explain the formation of a spit.

[4 marks]

Extra space

Question 3 continues on the next page

Do not write outside the box

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

Figure 10 – Beach nourishment

Figure 11 – Dune regeneration

Do not write outside the box

0 3 . 6 Discuss the costs and benefits of soft engineering strategies in protecting coastlines.

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

[6 marks]

Extra space

15

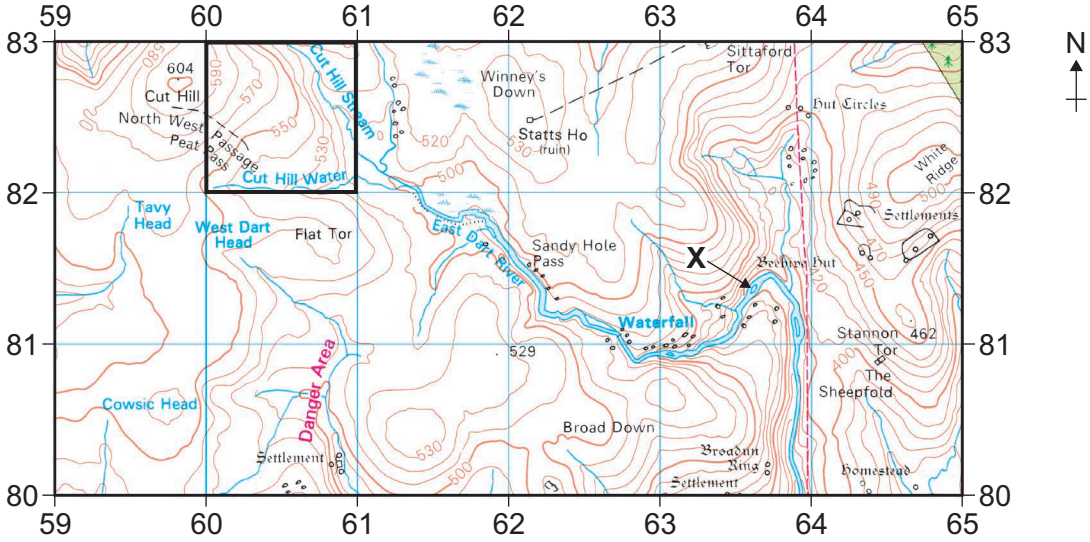
End of Question 3

Do not write outside the box

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



Scale 1: 50 000

2 centimetres to 1 kilometre (one grid square)

2 1 0 Kilometres 1 2 3

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]

_____

_____

_____

_____

Do not write outside the box

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

Do not write outside the box

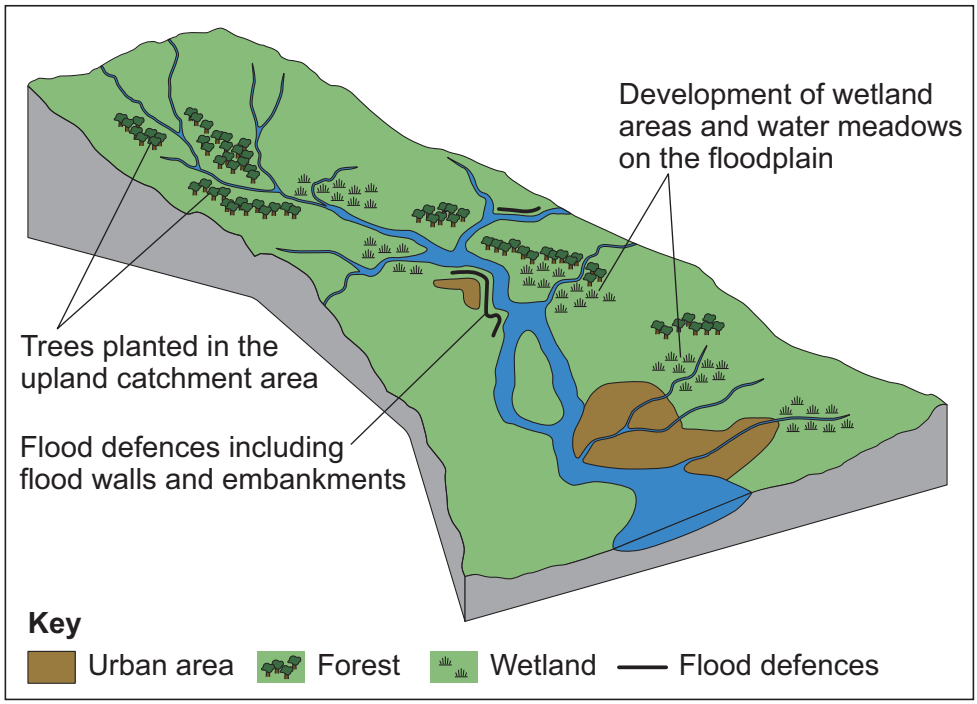
0 4 . 5 Explain the formation of an ox-bow lake.

[4 marks]

Extra space

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

Figure 14



Do not write outside the box

0 4 . 6 Discuss how flood management strategies may have impacts on people and the environment.

Use **Figure 14** and an example you have studied.

[6 marks]

Extra space

15

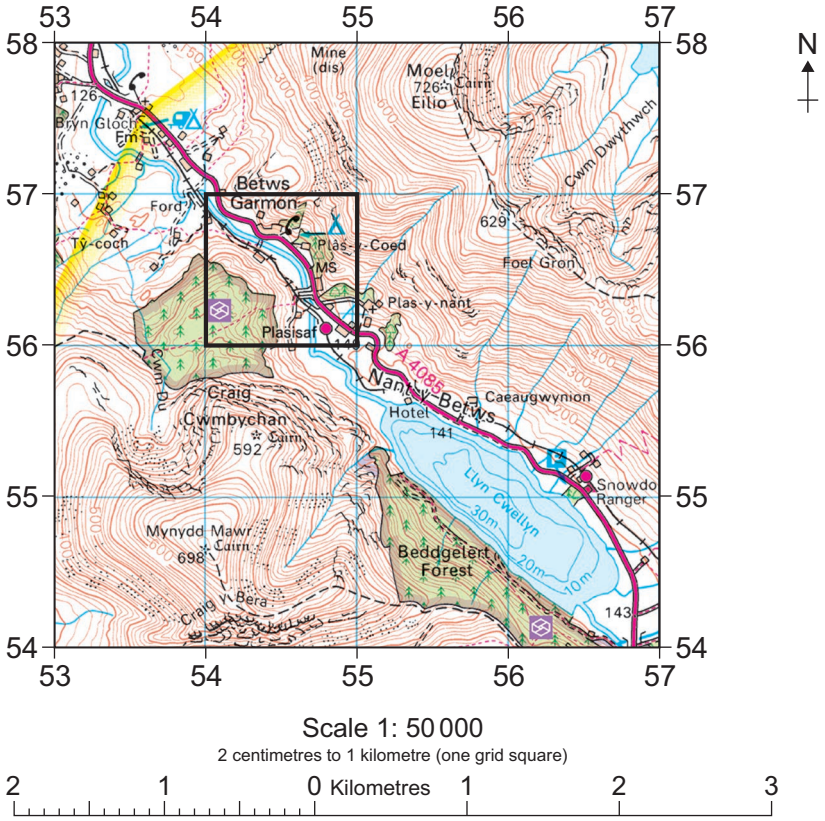
End of Question 4

Do not write outside the box

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]

_____

_____

_____

_____

Do not write outside the box

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]

_____

_____

Do not write outside the box

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.

Do not write outside the box

0 5 . 6 Discuss the success of strategies used to manage the impacts of tourism in glaciated upland areas.

Use **Figure 17** and an example you have studied.

[6 marks]

Extra space

15

END OF QUESTIONS

Do not write outside the box

There are no questions printed on this page

DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED

Do not write outside the box

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

Do not write outside the box

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

Do not write outside the box

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

Do not write outside the box

There are no questions printed on this page

DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED

Copyright information

For confidentiality purposes, all acknowledgements of third-party copyright material are published in a separate booklet. This booklet is published after each live examination series and is available for free download from www.aqa.org.uk.

Map extracts and key reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown copyright 2021. All rights reserved.
Ordnance Survey Licence number 100041328.

Permission to reproduce all copyright material has been applied for. In some cases, efforts to contact copyright-holders may have been unsuccessful and AQA will be happy to rectify any omissions of acknowledgements. If you have any queries please contact the Copyright Team.

Copyright © 2021 AQA and its licensors. All rights reserved.