OXFORD AQA

INTERNATIONAL QUALIFICATIONS

Please write clearly in block capitals.

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

Surname _____

Forename(s) _____

Candidate signature _____

I declare this is my own work.

INTERNATIONAL AS

GEOGRAPHY

Paper 1B Physical Geography 1 Coastal Systems and Landscapes

Friday 17 May 2024 07:00 GMT Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:
- a ruler with millimetre measurements
- a calculator, which you are expected to use where appropriate.

Instructions
- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do **not** write outside the box around each page or on blank pages.
- All working must be shown.
- 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 maximum mark for this paper is 80.
- You may use a bilingual dictionary for this exam.
- You may **not** use an English dictionary.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
TOTAL	

Do not write outside the box

Section A – Living with Hazards

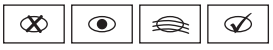
Answer **all** questions in the spaces provided.

You must answer **all** questions in **Section A**.

Only **one** answer per question is allowed.

For each question completely fill in the circle alongside the appropriate 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.

0 1 . 1 Which of the following would lead to the formation of an island arc?

[1 mark]

A An oceanic plate moving beneath a continental plate ⬭

B Two continental plates moving towards each other ⬭

C Two oceanic plates moving apart ⬭

D Two oceanic plates moving towards each other ⬭

0 1 . 2 What does earthquake magnitude describe?

[1 mark]

A How often an earthquake of a certain strength occurs ⬭

B The number of earthquakes occurring within a time period ⬭

C The predictability of an earthquake ⬭

D The strength of an earthquake ⬭

Do not write outside the box

0 1 . 3 Which of the following describes a storm surge?

[1 mark]

A A gust of wind reaching over 200 km/hour in strength ⬭

B A rise in sea level caused by a tropical storm ⬭

C A river flooding as a result of heavy rainfall ⬭

D A slope collapse as a result of heavy rainfall ⬭

0 1 . 4 What is tephra?

[1 mark]

A Hot gas and ash erupted from a volcano ⬭

B Molten material erupting from a volcano ⬭

C Solid material ejected by a volcanic eruption ⬭

D Super-heated material rising up through the mantle ⬭

0 1 . 5 An earthquake is an example of what type of hazard?

[1 mark]

A Atmospheric ⬭

B Biological ⬭

C Geophysical ⬭

D Hydrological ⬭

5

Do not write outside the box

Figure 1 shows the number of wildfires in the United States between 1984 and 2020.

Figure 2 shows the average acres burned per wildfire in the United States between 1984 and 2020.

Figure 1

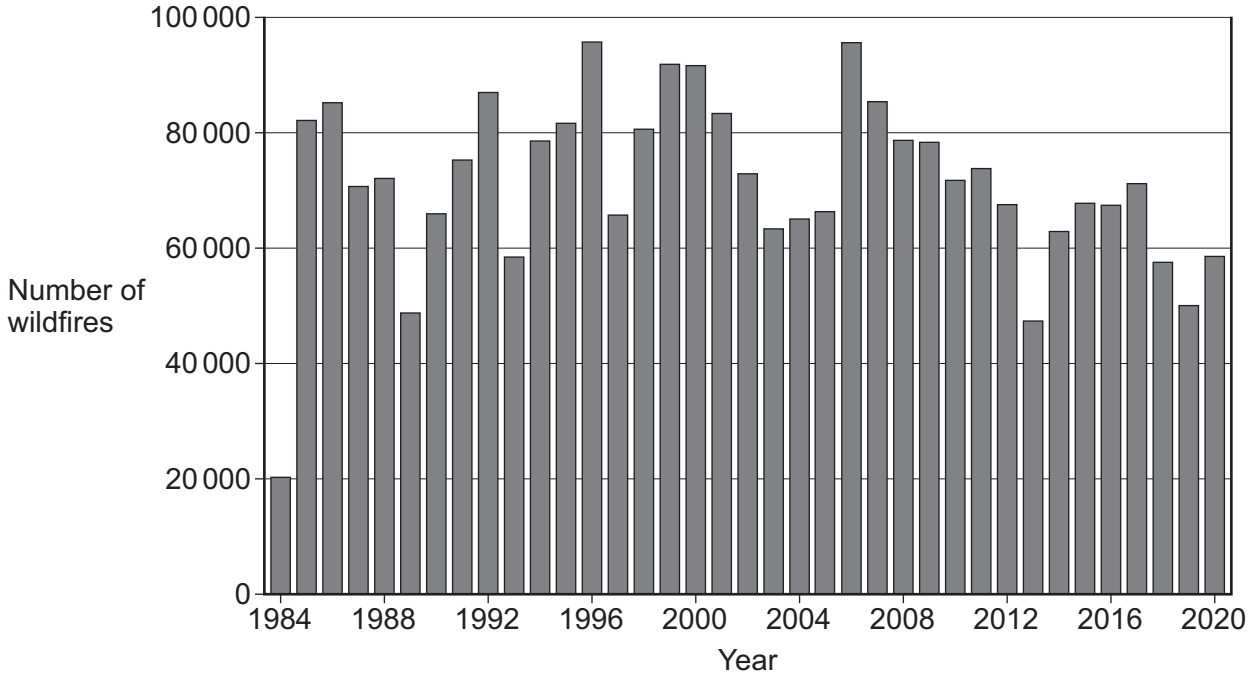
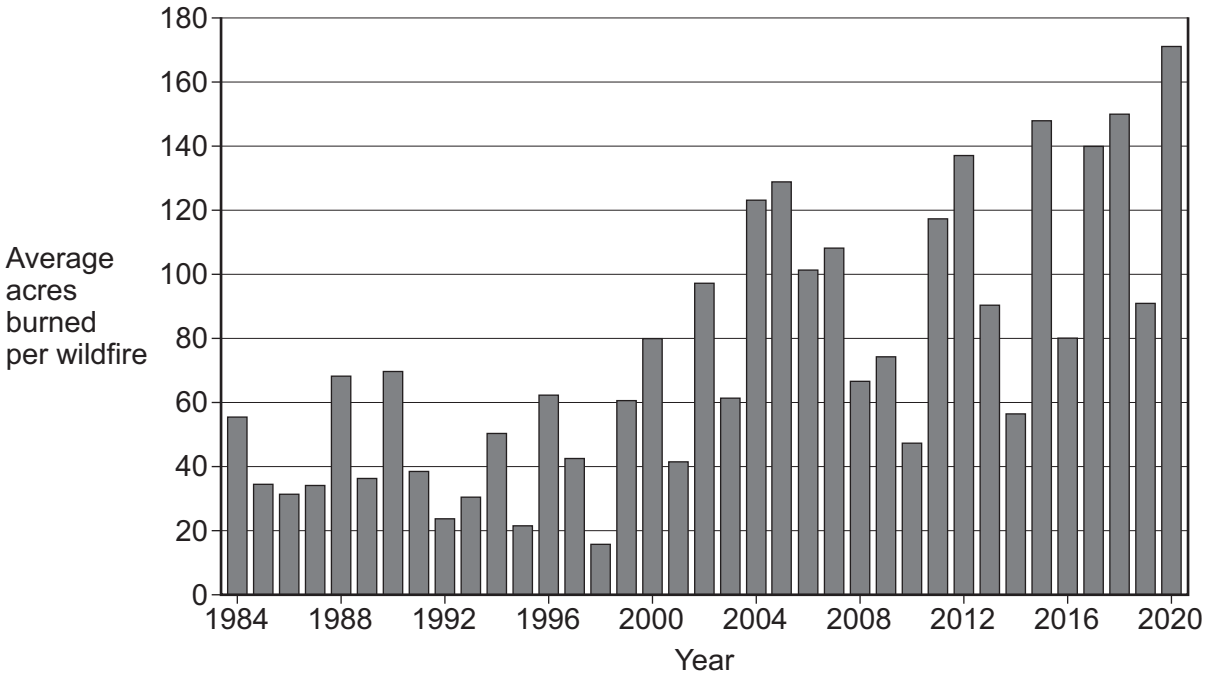


Figure 2



Do not write outside the box

0 2 Analyse the data shown in **Figure 1** and **Figure 2**.

[6 marks]

Extra space

6

Do not write outside the box

0 3 ‘Tropical storms are more predictable than earthquakes.’

Assess the extent to which you agree with this statement.

[9 marks]

Extra space

Do not write outside the box

9

0 4 ‘The benefits of living in hazardous areas are greater than the costs.’

Evaluate this statement using one or more examples you have studied.

[20 marks]

Do not write outside the box

Extra space

Do not write outside the box

20

END OF SECTION A

Turn over for Section B

Do not write outside the box

Section B – Coastal Systems and Landscapes

Answer **all** questions in the spaces provided.

You must answer **all** questions in **Section B**.

Only **one** answer per question is allowed.

For each question completely fill in the circle alongside the appropriate 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.

0 5 . 1 Which of the following are **both** characteristics of constructive waves?

[1 mark]

A Low energy waves **and** weak swash

B Low energy waves **and** weak backwash

C Plunging waves **and** short wavelength

D High energy waves **and** strong backwash

0 5 . 2 Which of the following is an example of a sediment store within a coastal system?

[1 mark]

A Longshore drift

B Ocean currents

C Salt marsh

D Vegetation

Do not write outside the box

0 5 . 3 Which of the following is an example of hard coastal engineering?

[1 mark]

A Allowing the sea to flood less valuable land ⬭

B Building concrete barriers to reduce the risk of erosion ⬭

C Conserving mangroves to reduce the impact of wave energy ⬭

D Encouraging the growth of salt marsh in tidal estuaries ⬭

0 5 . 4 Which of the following describes a wave-cut platform?

[1 mark]

A Column of rock near the coast ⬭

B Gently sloping rocky area found at the base of a cliff ⬭

C Steep coastal slope created by erosion ⬭

D Wave-eroded passage through a headland ⬭

0 5 . 5 Which of the following is an example of an emergent coastal landform?

[1 mark]

A Dalmatian coast ⬭

B Fjord ⬭

C Raised beach ⬭

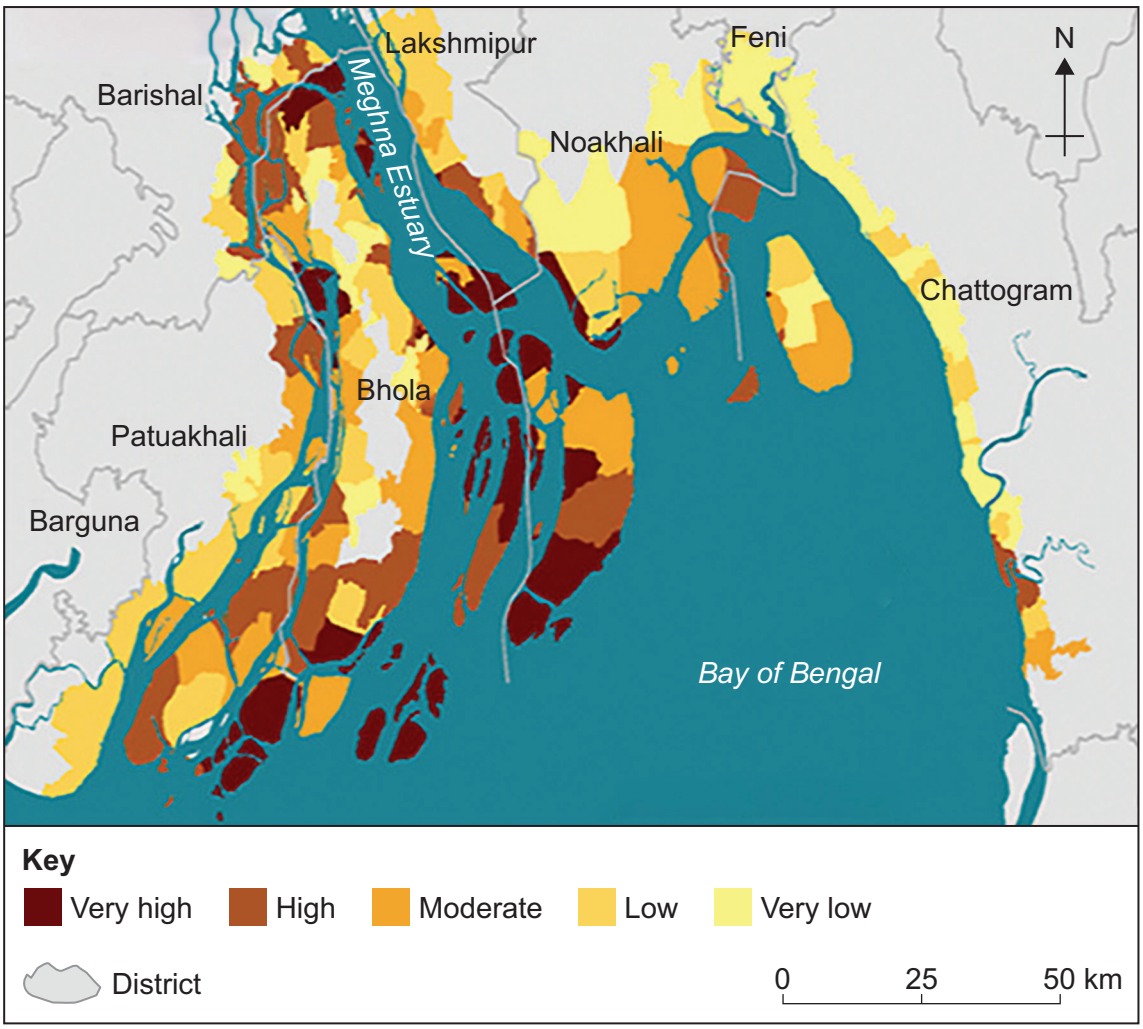
D Ria ⬭

5

Do not write outside the box

Figure 3 shows information about the risks of coastal erosion on part of the Bangladesh coast.

Figure 3



Risk is considered both in terms of physical factors (flooding and erosion) and human factors (social and economic vulnerability).

0 6 Analyse the information shown in **Figure 3**.

[6 marks]

Do not write outside the box

Extra space

6

0 7 Assess the role of longshore drift (also called littoral drift) in the formation of depositional landforms in coastal areas.

[9 marks]

Do not write outside the box

Extra space

9

0 8 ‘All types of coastal management interfere with natural processes.’

Evaluate this statement with reference to one or more examples you have studied.

[20 marks]

Do not write outside the box

Turn over ▶

Do not write outside the box

Extra space

END OF QUESTIONS

20

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.**

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.oxfordaqa.com

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

Copyright © 2024 OxfordAQA International Examinations and its licensors. All rights reserved.