OXFORD AQA

INTERNATIONAL QUALIFICATIONS

Please write clearly in block capitals.

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

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Forename(s) _____

Candidate signature _____

I declare this is my own work.

INTERNATIONAL AS

GEOGRAPHY

Paper 1A Physical Geography 1 Hot Desert 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	

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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

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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

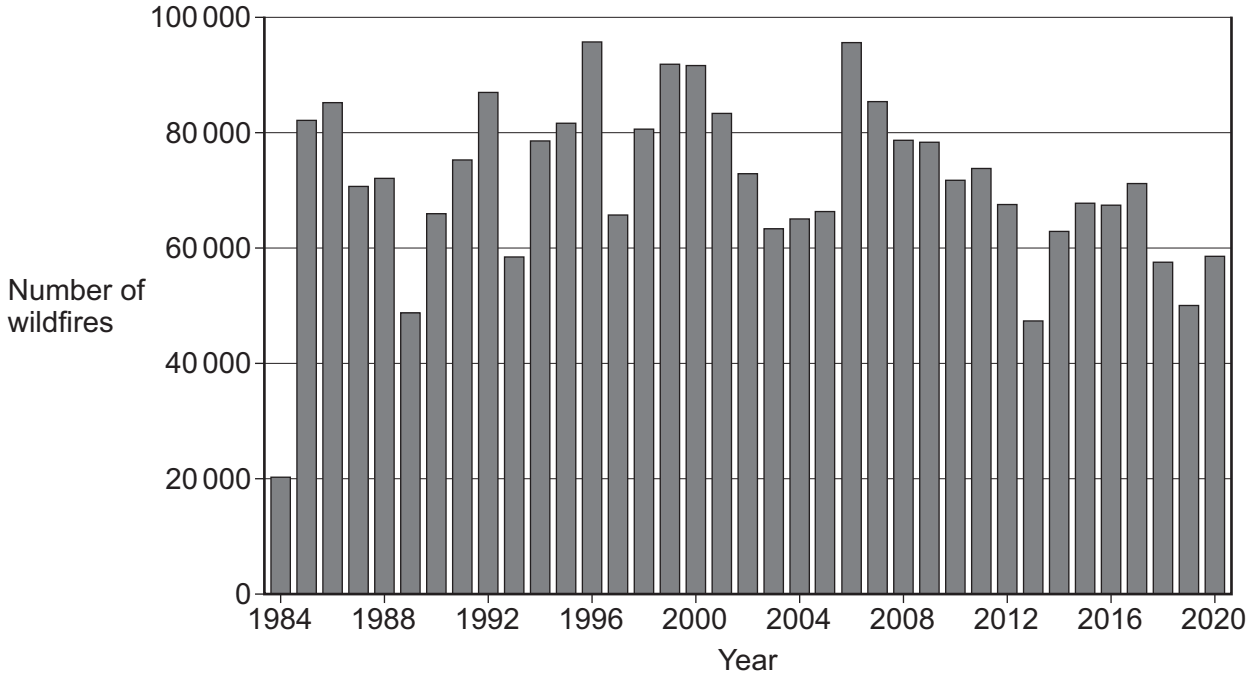
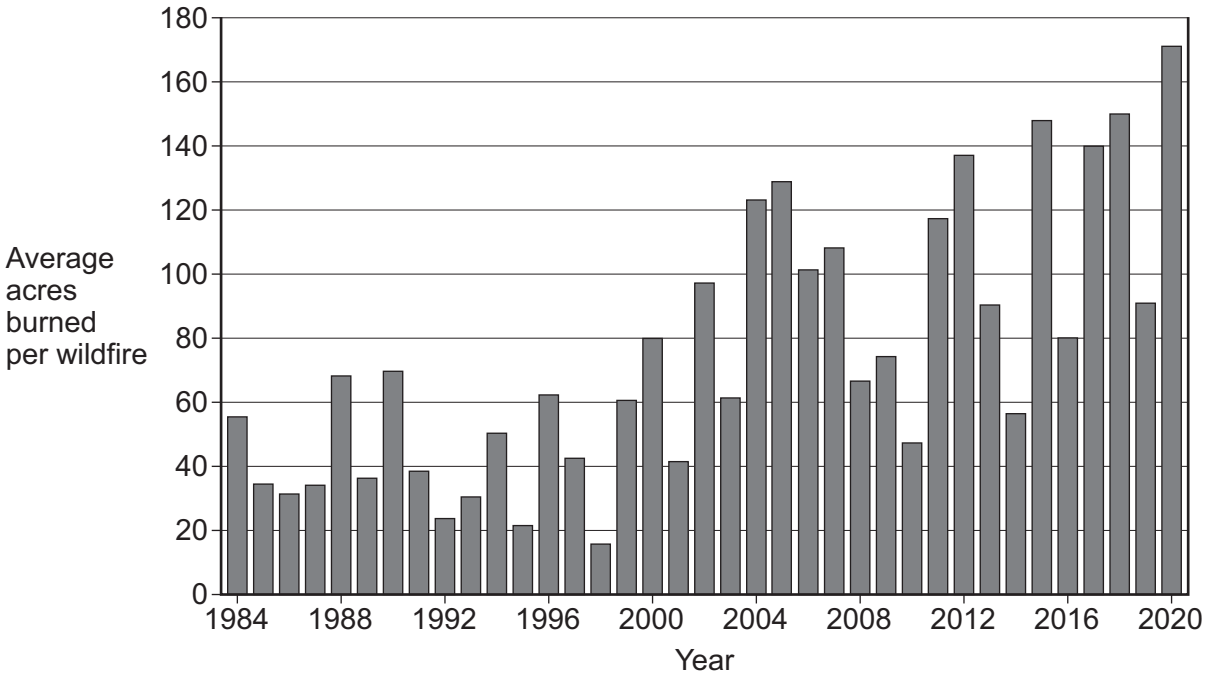


Figure 2



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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]

Turn over ▶

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 – Hot Desert Systems and Landscapes

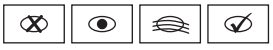
Answer **all** questions in the spaces provided.

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 describes an endorheic river?

[1 mark]

A A river that can remain dry for years

B A river that does not flow into the sea

C A river that flows for short periods after heavy rainfall

D A river that originates outside of a dry zone

0 5 . 2 ‘A broad spread of alluvial material along the base of a mountain.’

This is a description of which of the following features?

[1 mark]

A Bahada

B Playa

C Ventifact

D Yardang

Do not write outside the box

0 5 . 3 Which of the following is an example of a sediment store within a desert system?

[1 mark]

A Abrasion ⬭

B Climate ⬭

C Sief dune ⬭

D Vegetation ⬭

0 5 . 4 What is the maximum average annual rainfall that defines a desert?

[1 mark]

A 150 mm per year ⬭

B 250 mm per year ⬭

C 350 mm per year ⬭

D 450 mm per year ⬭

0 5 . 5 Which of the following expresses the water balance in hot deserts?

[1 mark]

A evapotranspiration **=** precipitation **+** runoff **–** soil water storage ⬭

B precipitation **=** evapotranspiration **+/–** soil water storage **+** runoff ⬭

C precipitation **=** runoff **+/–** soil water storage **–** evapotranspiration ⬭

D soil water storage **=** precipitation **+** runoff **–** evapotranspiration ⬭

5

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Figure 3 shows the annual mean expansion of the Sahara Desert between 1900 and 2015.

Figure 4 shows precipitation anomalies in the Sahara Desert between 1900 and 2015.

Figure 3

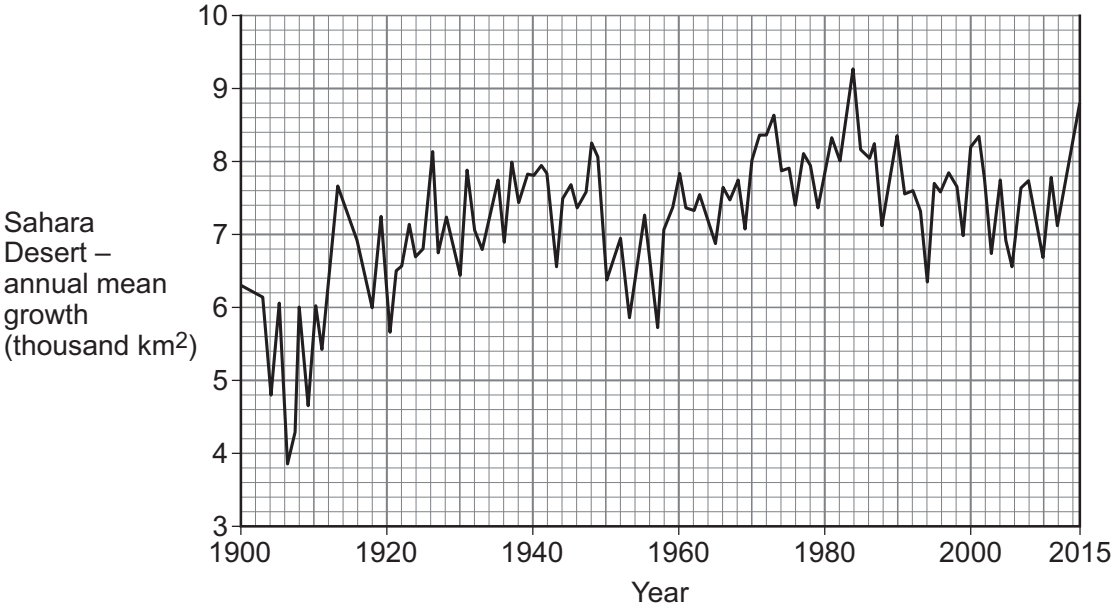
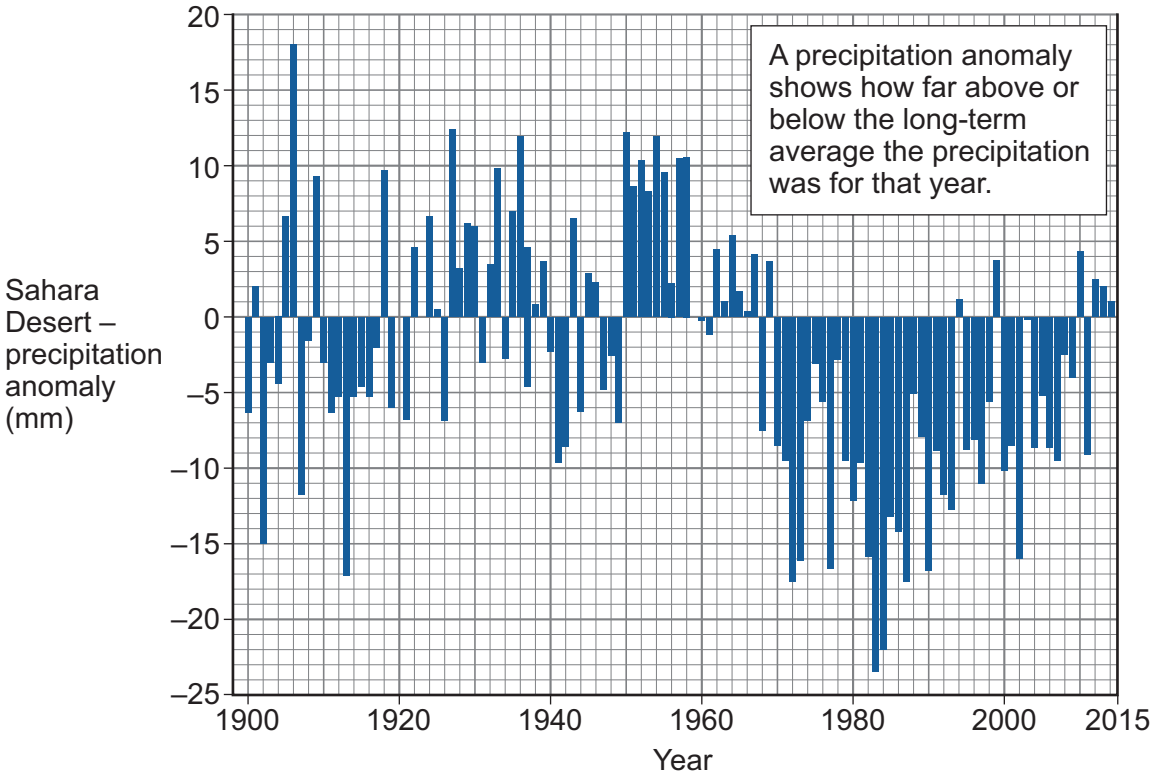


Figure 4



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0 6 Analyse the data shown in **Figure 3** and **Figure 4**.

[6 marks]

Extra space

6

Do not write outside the box

0 7 Assess the role of water in creating distinctive landscape features in hot deserts.

[9 marks]

Extra space

Do not write outside the box

9

0 8 ‘Responses to the problems of desertification are always successful.’

Evaluate this statement with reference to 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 QUESTIONS

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ANSWER IN THE SPACES PROVIDED

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

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

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