

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.

INTERNATIONAL AS GEOGRAPHY

Paper 1A Physical Geography 1 Hot Desert Systems and Landscapes

Wednesday 3 January 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	



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 describes a short-term response to an earthquake?

[1 mark]

- A Building new schools and infrastructure
- B Improving agriculture in order to encourage food security
- C Investing in the development of earthquake-proof infrastructure
- D Providing bottled water and water purification tablets

☐
☐
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☐

0 1 . 2

Which of the following are characteristics of tropical storms?

[1 mark]

- A They always occur in late autumn and early winter.
- B They develop between 5 degrees north and 30 degrees south of the equator.
- C They develop between 5 degrees north and 5 degrees south of the equator.
- D They develop over hot continental land masses.

☐
☐
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0 1 . 3

Which of the following conditions increases the risk of wildfires?

[1 mark]

- A** Dry, calm conditions where dead vegetation has been removed
- B** Dry, windy conditions with a lot of leaf litter
- C** When winds are strong in winter and people are using open fires in their homes
- D** Where people use rural areas for winter sports activities

☐☐☐☐

0 1 . 4

'Changing behaviour in order to reduce the potential effects of a hazard' is an example of which of the following types of hazard response?

[1 mark]

A Adaptation☐**B** Fatalism☐**C** Prediction☐**D** Risk-sharing☐

0 1 . 5

Which of the following is the term for a mixture of superheated gas, lava and ash ejected from a volcano?

[1 mark]

A Lava flow☐**B** Mudflow☐**C** Nuée ardente☐**D** Tephra☐

5

Turn over ►



Figure 1



- Tropical storms (wind speed up to 110 kph)
- Major tropical storms (wind speed above 110 kph)

Analyse the data shown in **Figure 1**.

[6 marks]

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0	3
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[9 marks]

[illegible]

Extra space _____

[20 marks]

[illegible]

[illegible]

Extra space

END OF SECTION A



Turn over for Section B

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outside the
box*

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ANSWER IN THE SPACES PROVIDED**

Turn over ►



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

What is a zeugen?

[1 mark]

- A A crescent-shaped sand dune ☐
- B A rounded landform that develops in rocks with no layered structure ☐
- C An elongated ridge that forms in horizontally layered rock ☐
- D An elongated ridge that forms in vertically layered rock ☐

0 5 . 2

Which of the following describes the process of granular disintegration?

[1 mark]

- A Rock surfaces are worn away by wind-blown sand. ☐
- B Rocks break apart along joints and bedding plains. ☐
- C Rocks break apart as a result of minerals expanding and contracting at different rates. ☐
- D The outer surface of a rock breaks away as a result of repeated heating and cooling. ☐



0 5 . 3

Which of the following statements describes dynamic equilibrium in hot deserts?

[1 mark]

- A** The development of distinct desert landforms ☐
- B** When physical processes constantly transfer material from one place to another ☐
- C** Where the characteristics of deserts remain similar over a long period of time ☐
- D** Where weathered material remains in situ and is not removed by physical processes ☐

0 5 . 4

Which of the following is an impact of desertification on people?

[1 mark]

- A** An increase in population ☐
- B** Climate change ☐
- C** Improved food availability ☐
- D** The loss of grasslands ☐

0 5 . 5

What is the aridity index?

[1 mark]

- A** The average precipitation that a place receives over a period of years ☐
- B** The mean annual amount of evapotranspiration ☐
- C** The ratio between mean annual precipitation and mean annual potential evapotranspiration ☐
- D** The ratio between total annual precipitation and total annual potential evaporation ☐

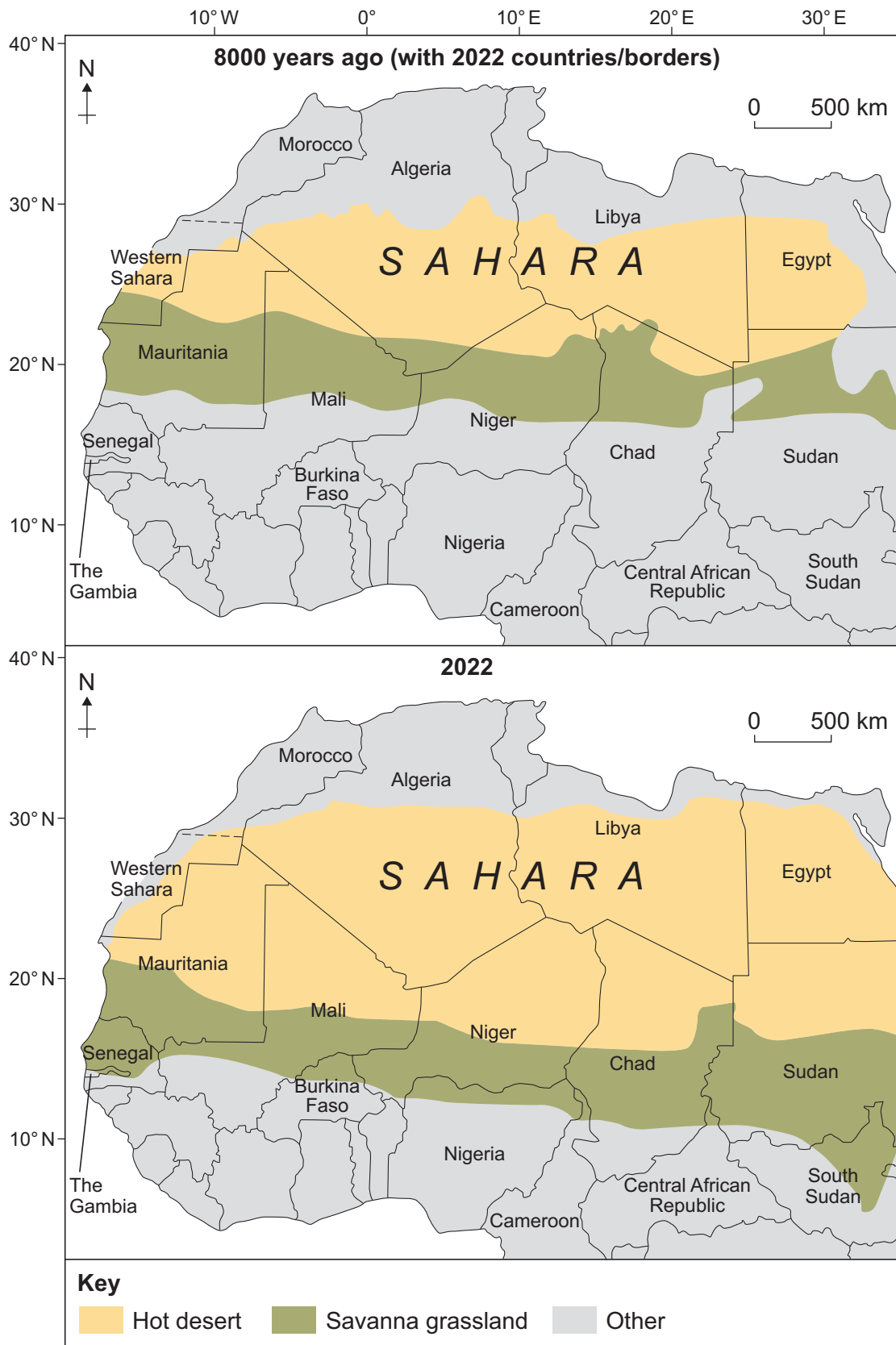
5

Turn over ►



Figure 2 shows the changing extent of the Sahara Desert and savanna grasslands in North Africa.

Figure 2



[6 marks]

Extra space _____

3

[9 marks]

[illegible]



0 8

'High pressure is the most significant factor in determining the location and distribution of hot deserts.'

To what extent do you agree with this statement?

[20 marks]

Turn over ►



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20

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ANSWER IN THE SPACES PROVIDED**



[illegible]

