

Write your name here

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Other names

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Edexcel GCSE

Centre Number

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Candidate Number

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Geography B

Unit 1: Dynamic Planet

Foundation Tier

Monday 22 May 2017 – Afternoon

Time: 1 hour 15 minutes

Paper Reference

5GB1F/01

You do not need any other materials.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- In Section A, answer **all** questions.
- In Section B, answer **either** question 5 **or** 6.
- In Section C, answer **either** question 7 **or** 8.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 78.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed
– *you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.*
- The marks available for spelling, punctuation and grammar are clearly indicated.

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

Turn over ►

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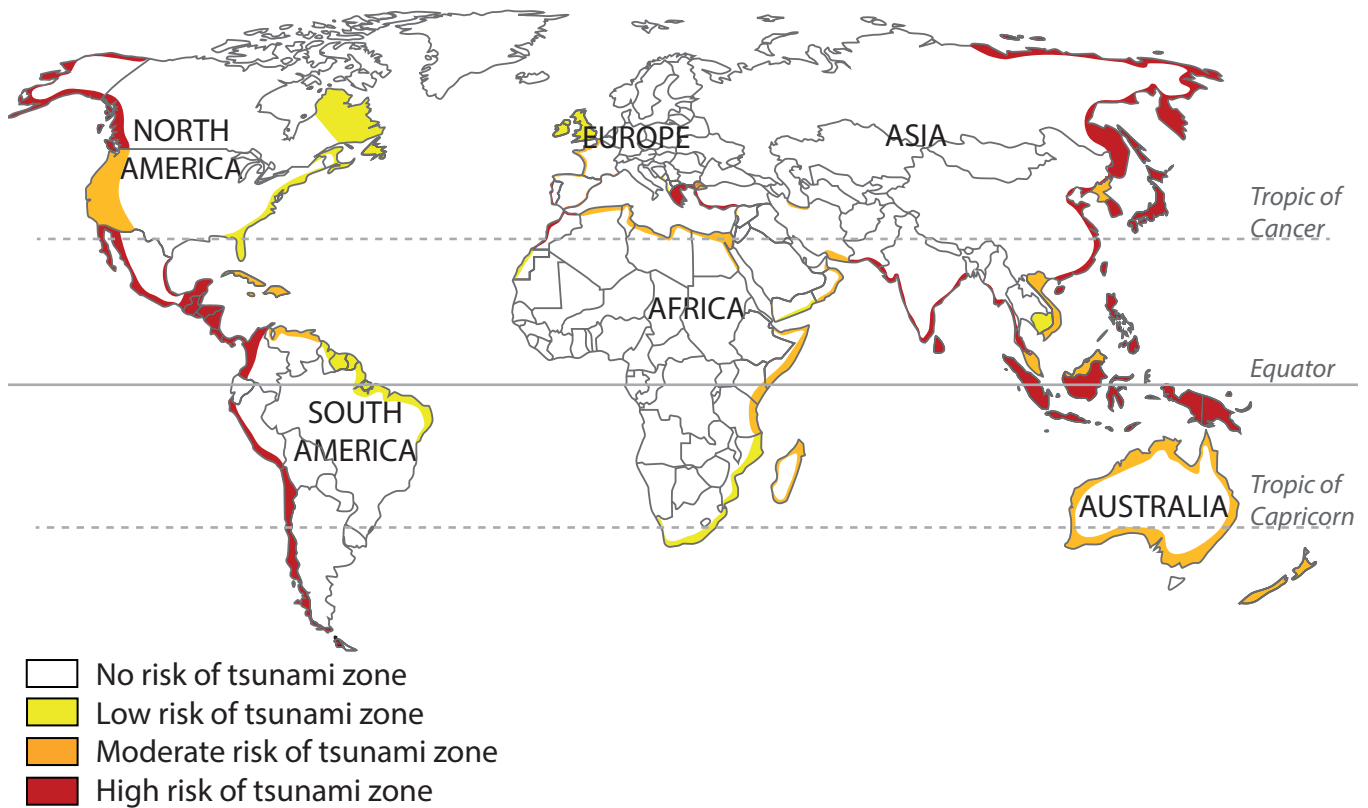
SECTION A – INTRODUCTION TO THE DYNAMIC PLANET

Answer ALL questions in this section.

Topic 1: Restless Earth

Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 Figure 1 shows the global variations in tsunami risk.



(Source: <http://www.mapsofworld.com/world-maps/tsunami-zones.html>)

Figure 1

(a) Study Figure 1.

(i) Which **one** of the following coastlines has the lowest risk of tsunamis?

(1)

- A Western North America
- B Western South America
- C Western Africa
- D Eastern Asia



(ii) Which **one** of the following is the main cause of tsunamis?

(1)

- A** volcano
- B** tropical storm
- C** tornado
- D** earthquake

(b) Outline **one** difference between primary and secondary impacts of tectonic hazards.

(2)

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(c) For a named tectonic hazard event, describe the immediate responses.

(4)

Named tectonic hazard event

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(d) Explain why earthquakes occur on conservative plate boundaries.

You may use a diagram to help your answer.

(4)

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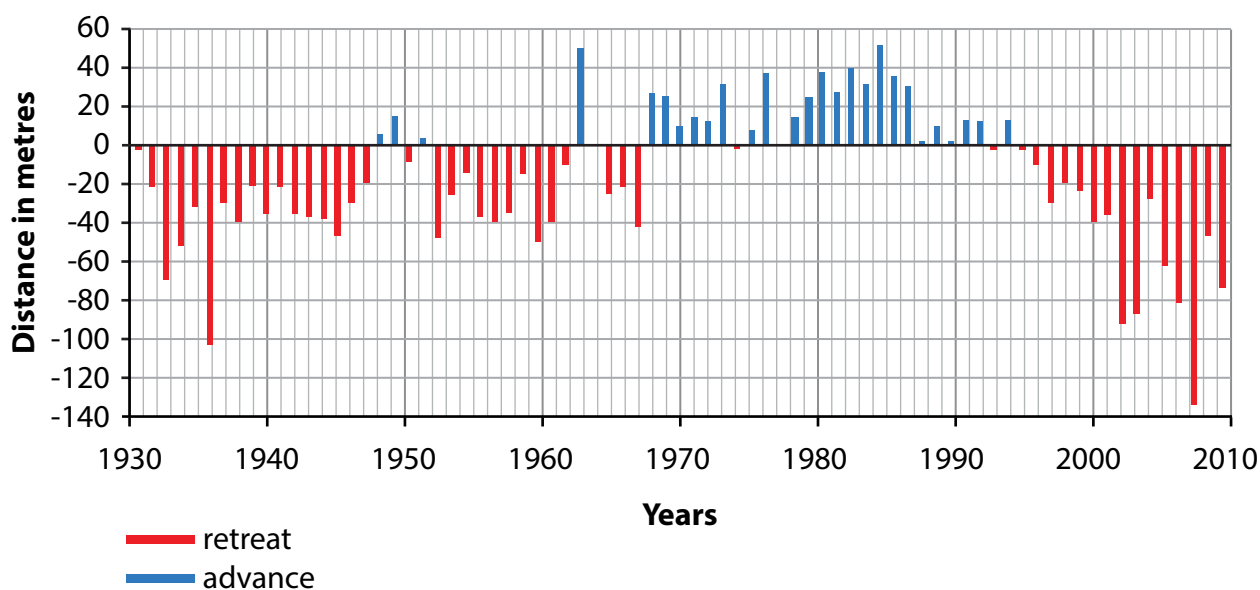
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(Total for Question 1 = 12 marks)



Topic 2: Changing Climate

- 2 Figure 2 shows the advance and retreat of Sólheimajökull, an Icelandic glacier, between 1930 and 2010.



(Source: www.geocaching.com)

Figure 2

- (a) Study Figure 2.

(i) In which **one** of the following decades did the glacier retreat most?

(1)

- A 1940s
- B 1950s
- C 1960s
- D 2000s

(ii) Which **one** of the following statements best describes the changes in the glacier in the 1990s?

(1)

- A It retreated throughout the decade.
- B It retreated in the first few years and then advanced.
- C It advanced in the first few years and then retreated.
- D It advanced throughout the decade.



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(b) Other than glacial advance and retreat, describe **two** pieces of evidence that show that climate change has happened in the past.

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(c) What is meant by the term **greenhouse effect**?

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(d) Describe the possible impacts of future climate change on a named developing country.

(4)

Named developing country

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(Total for Question 2 = 12 marks)



Topic 3: Battle for the Biosphere

3 Figure 3 shows the numbers of endangered species, which are likely to become extinct, for the seven continents.

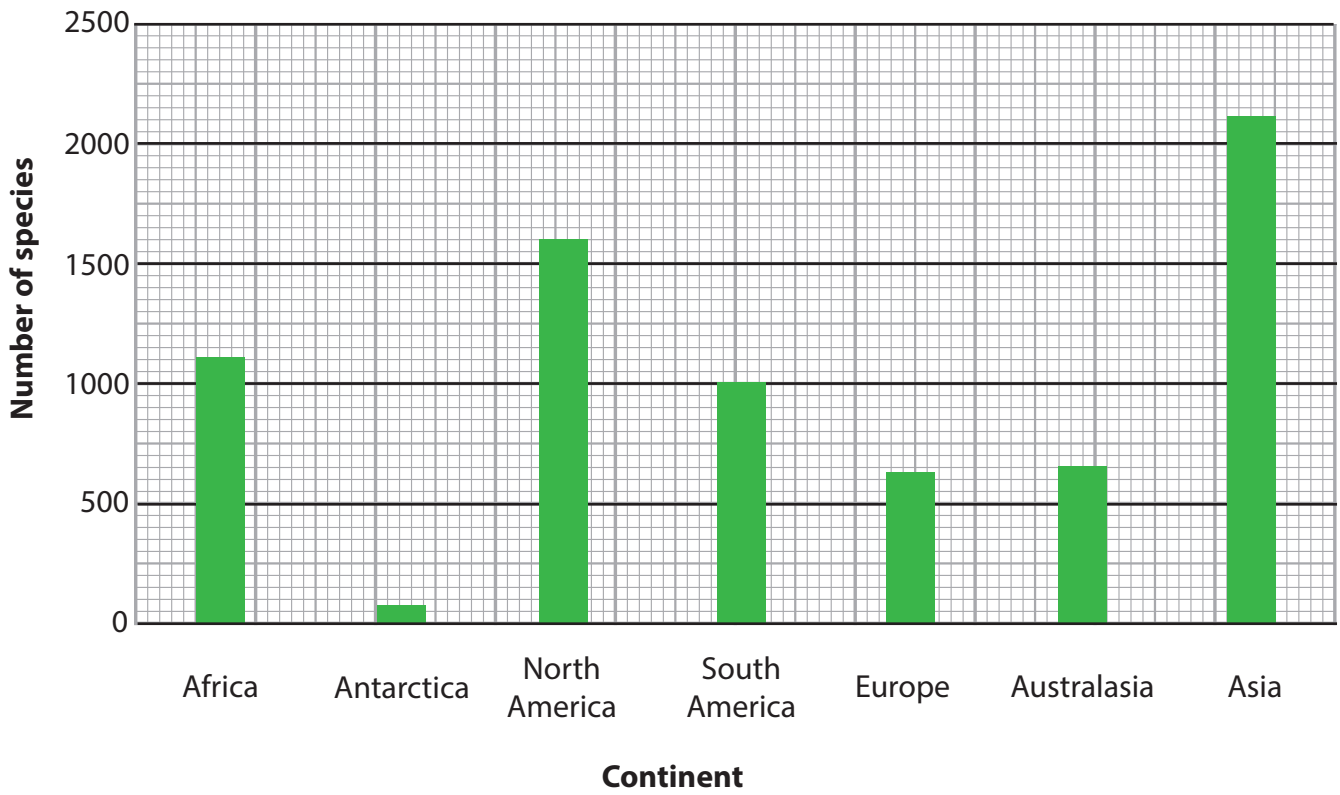


Figure 3

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(a) Study Figure 3.

(i) Which **one** of the following continents has the highest number of endangered species?

(1)

- A** North America
- B** Africa
- C** Asia
- D** Europe

(ii) What is the approximate total number of endangered species across all continents?

(1)

- A** 10 000
- B** 5 000
- C** 7 250
- D** 2 500

(iii) Outline **one** reason why tropical rainforests might have many endangered species.

(2)

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(b) For a named location, describe the local management measures being used to conserve the biosphere.

(4)

Named location

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(c) Explain why altitude affects biome location.

(4)

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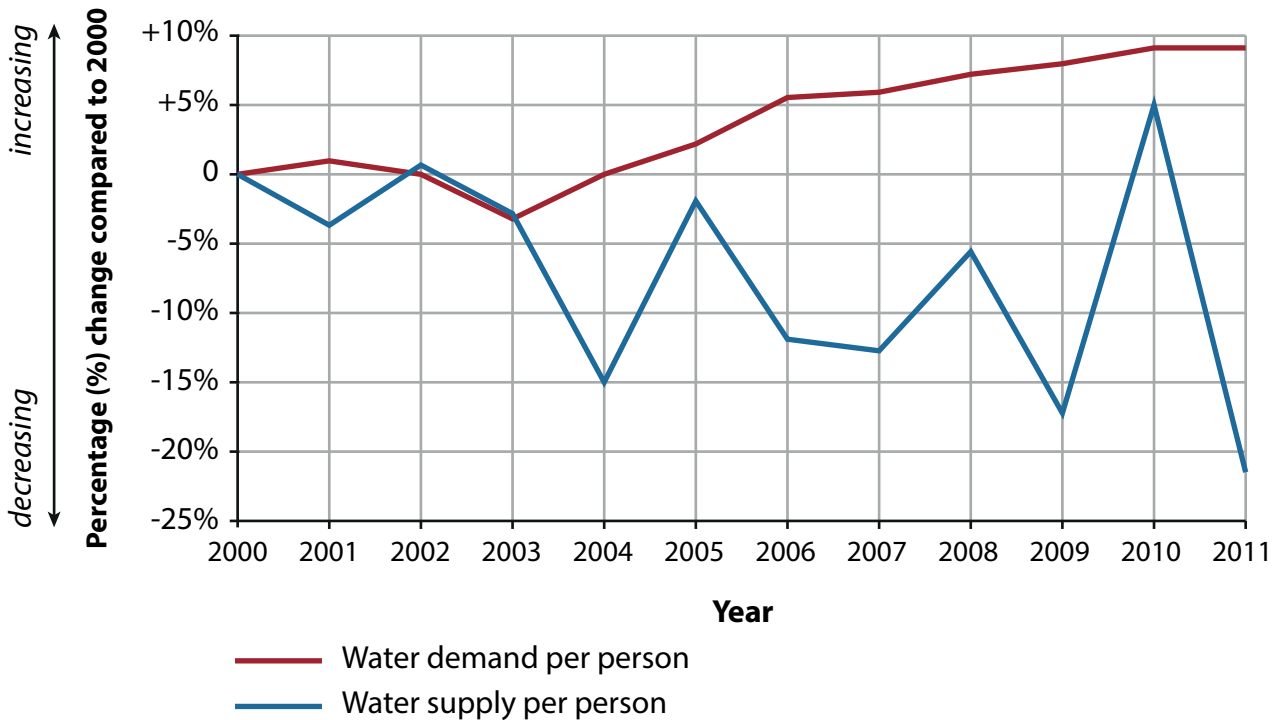
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(Total for Question 3 = 12 marks)



Topic 4: Water World

- 4 Figure 4 shows the changing supply and demand of water per person in China since 2000.



(Source: from <http://chinawaterrisk.org/wp-content/uploads/2015/04/Towards-A-Water-Energy-Secure-China-CWR0415.pdf>)

Figure 4

- (a) Study Figure 4.

- (i) Which **one** of the following best describes the changes in water supply per person?

(1)

- A It increased and decreased but was lowest in 2011.
- B It increased in every year except 2009.
- C It increased in more years than it decreased.
- D It increased in all years.

- (ii) Which **one** of the following is the most likely impact of water shortages in China?

(1)

- A Higher risk of crop failure.
- B Decrease in waterborne diseases.
- C Cheaper prices for clean water.
- D Less time spent collecting clean water.



(iii) Suggest **one** reason why demand for water has risen in China.

(2)

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(b) For a named large-scale water management scheme, describe **one** cost and **one** benefit.

(4)

Large-scale water management scheme

Cost

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Benefit

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(c) Outline **two** threats to water quality.

(4)

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(Total for Question 4 = 12 marks)

TOTAL FOR SECTION A = 48 MARKS



P 4 8 6 9 7 A 0 1 3 2 8

SECTION B – SMALL-SCALE DYNAMIC PLANET

Answer ONE question in this section.

Topic 5: Coastal Change and Conflict

If you answer Question 5 put a cross in the box .

Spelling, punctuation and grammar will be assessed in 5*(d).

- 5** Figure 5 shows a cliff collapse in the west of England.



Figure 5

(a) Study Figure 5.

- (i) Which **one** of the following is the most likely process of mass movement taking place?

(1)

- A** rockfall
- B** weathering
- C** attrition
- D** slumping

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(ii) Which **one** of the following is the most likely cause of this cliff collapse?

(1)

- A** A period of light rain and stormy seas.
- B** A period of heavy rain and stormy seas.
- C** A period of light rain and calm seas.
- D** A period of heavy rain and calm seas.

(b) Outline **one** method of soft engineering used in the management of coasts.

(2)

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(c) State **two** differences between constructive and destructive waves.

(2)

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*(d) Explain the formation of a stack.

You may use a diagram to help your answer.

(6)

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(Total for spelling, punctuation and grammar = 3 marks)
(Total for Question 5 = 15 marks)



P 4 8 6 9 7 A 0 1 7 2 8

Topic 6: River Processes and Pressures

If you answer Question 6 put a cross in the box .

Spelling, punctuation and grammar will be assessed in 6*(d).

- 6 Figure 6 shows river erosion in North Carolina, USA.



(Source: <http://www.bae.ncsu.edu/programs/extension/wqg/sri/southfork.htm>)

Figure 6

(a) Study Figure 6.

- (i) Which **one** of the following is the most likely process causing this river erosion? (1)

- A** hydraulic action
- B** weathering
- C** attrition
- D** solution

- (ii) Which **one** of the following is the most likely cause of this river bank collapse? (1)

- A** A period of light rain and high discharge.
- B** A period of heavy rain and high discharge.
- C** A period of light rain and low discharge.
- D** A period of heavy rain and low discharge.

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(b) Outline **one** method of soft engineering used in the management of rivers.

(2)

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(c) State **two** differences between the lower and upper courses of rivers.

(2)

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* (d) Explain the formation of a floodplain.

You may use a diagram to help your answer.

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(Total for spelling, punctuation and grammar = 3 marks)
(Total for Question 6 = 15 marks)

TOTAL FOR SECTION B = 15 MARKS



P 4 8 6 9 7 A 0 2 1 2 8

SECTION C – LARGE-SCALE DYNAMIC PLANET

Answer ONE question in this section.

Topic 7: Oceans on the Edge

If you answer Question 7 put a cross in the box .

Spelling, punctuation and grammar will be assessed in 7*(d).

- 7 Figure 7 shows the top five items of waste found on Californian beaches on 'Clean-up day', 2015.



(Source: from switchboard.nrdc.org)

Figure 7

(a) Study Figure 7.

- (i) Which **one** of the following materials made up most of this waste?

(1)

- A plastic
- B glass
- C metal
- D paper



(ii) Which **one** of the following is most likely to contribute to an increase in this waste?

(1)

- A** overfishing
- B** tourism
- C** intensive agriculture
- D** industrial pollution

(b) Outline **one** way coastal development is a threat to **either** mangrove swamps **or** coral reefs.

(2)

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(c) What is meant by the term **nutrient cycle**?

(2)

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***(d)** Using examples, explain how global actions can help maintain ocean health.

(6)

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(Total for spelling, punctuation and grammar = 3 marks)

(Total for Question 7 = 15 marks)

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QUESTION 8 BEGINS ON THE NEXT PAGE.



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Topic 8: Extreme Environments

If you answer Question 8 put a cross in the box .

Spelling, punctuation and grammar will be assessed in 8*(d).

8 Figure 8 shows how Fennec foxes have adapted to their environment.



A Fennec fox

- Fennec foxes live in holes underground where they hide during the day and raise their young.
- They hunt at night.
- Excellent hearing helps them find their prey and big ears help keep them cool.

(Source: used under Creative Commons)

Figure 8

(a) Study Figure 8.

(i) Which **one** of the following is an adaptation made by Fennec foxes to high temperatures?

(1)

- A long whiskers
- B long tail
- C big ears
- D dark eyes

(ii) Which **one** of the following may threaten this species?

(1)

- A deforestation
- B climate change
- C sea level rise
- D marine pollution

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(b) Outline **one** way in which people have adapted to extreme environments.

(2)

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(c) What is meant by the term **desertification**?

(2)

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* (d) Using examples, explain the role of global actions in protecting extreme environments from climate change.

(6)

Dotted lines for writing the answer.

(Total for spelling, punctuation and grammar = 3 marks)
(Total for Question 8 = 15 marks)

TOTAL FOR SECTION C = 15 MARKS
TOTAL FOR PAPER = 78 MARKS

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