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Surname

Other names

**Pearson**  
**Edexcel GCSE**

Centre Number

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Candidate Number

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# Geography B

## Unit 1: Dynamic Planet

**Foundation Tier**

Tuesday 13 May 2014 – 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.
- Keep an eye on the time.
- Check your answers if you have time at the end.

Turn over ►

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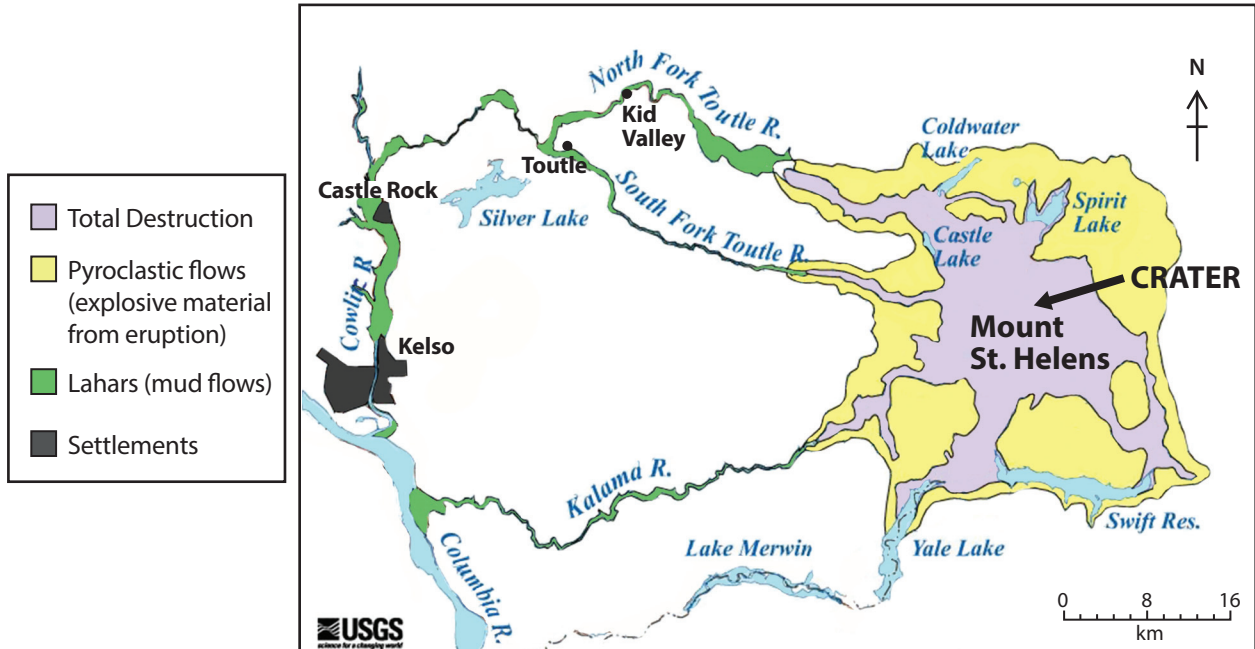
**PEARSON**

## SECTION A – INTRODUCTION TO THE DYNAMIC PLANET

Answer ALL questions in this section.

### Topic 1: Restless Earth

- 1 Figure 1 is a map of the Mount St. Helens area showing possible future hazards.



(Source: US Geological Survey, Department of the Interior/USGS)

Figure 1

- (a) Study Figure 1.

The following questions are multiple choice. Put a cross in the box of the answer that you select. **There is only one correct answer to each question.**

- (i) In which direction is the settlement of Kelso from the crater of Mount St. Helens?

(1)

- A North West  
 B West  
 C South  
 D South East

- (ii) Which of the following hazards should the settlement of Kelso prepare for?

(1)

- A Pyroclastic flows  
 B Lahars  
 C Lava flows  
 D Tsunamis



(b) Give **two** secondary impacts often caused by volcanic eruptions.

(2)

1 .....

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2 .....

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(c) For a named earthquake **or** volcanic eruption, describe the immediate response and relief efforts.

(4)

Named earthquake **or** volcanic eruption .....

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(d) Describe how convection currents cause plate movements.

You may draw a diagram in the space below to help your answer.

(4)



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**(Total for Question 1 = 12 marks)**



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**Question 2 is on the next page**



## Topic 2: Changing Climate

2 Figure 2 shows annual temperature variations in Europe between 900AD and 2000AD.

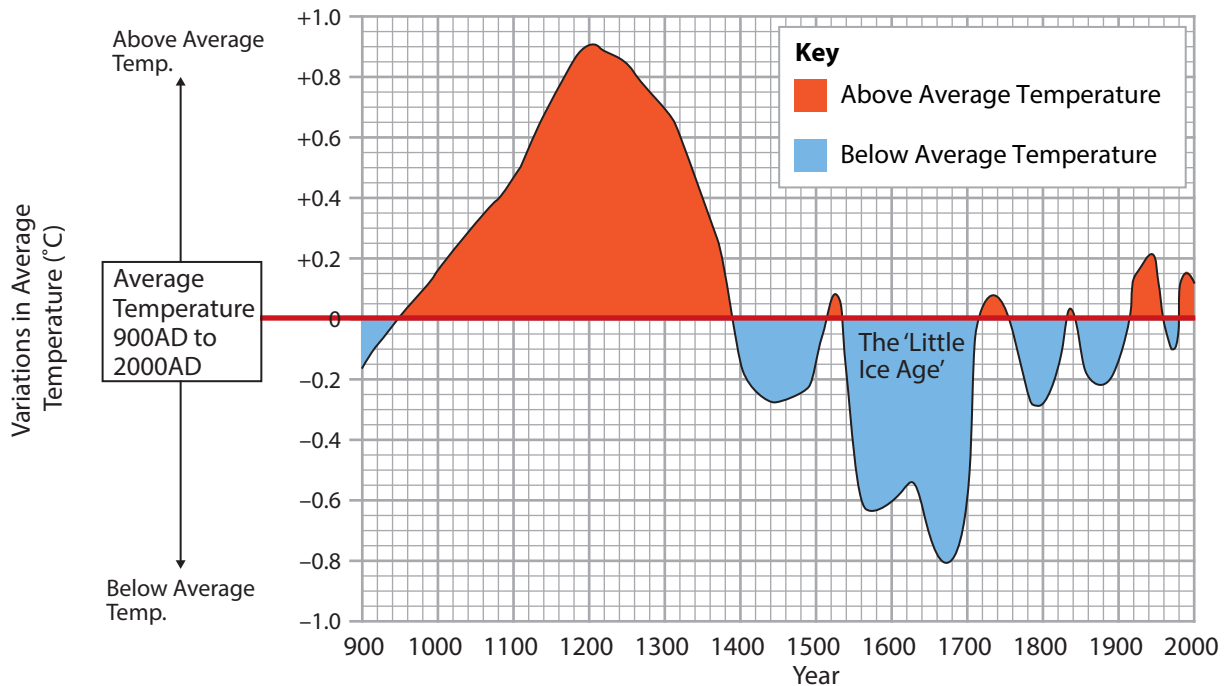


Figure 2

(a) Study Figure 2.

The following questions are multiple choice. Put a cross in the box of the answer you select. **There is only one correct answer to each question.**

(i) Which of the following best describes Europe's average annual temperature between 900AD and 2000AD?

(1)

- A It steadily increased.
- B It steadily decreased.
- C It varied.
- D It decreased then increased.

(ii) 1100AD to 1300AD was a particularly warm period.

Which of the following reasons might have contributed to the higher temperatures?

(1)

- A Large eruptions of volcanic ash
- B An increase in solar output
- C An increase in polar ice
- D More industry creating greenhouse gases



(iii) Give **two** impacts of past climate change, such as the 'Little Ice Age', on the **environment**.

(2)

1 .....

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2 .....

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(b) Describe **two** possible **economic** impacts of future climate change.

(4)

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(c) Explain why the **UK's** climate might change in the future.

(4)

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**(Total for Question 2 = 12 marks)**

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**Question 3 is on the next page**



### Topic 3: Battle for the Biosphere

- 3 Figure 3 shows the importance of different causes of deforestation in Brazil between 2000 and 2005.

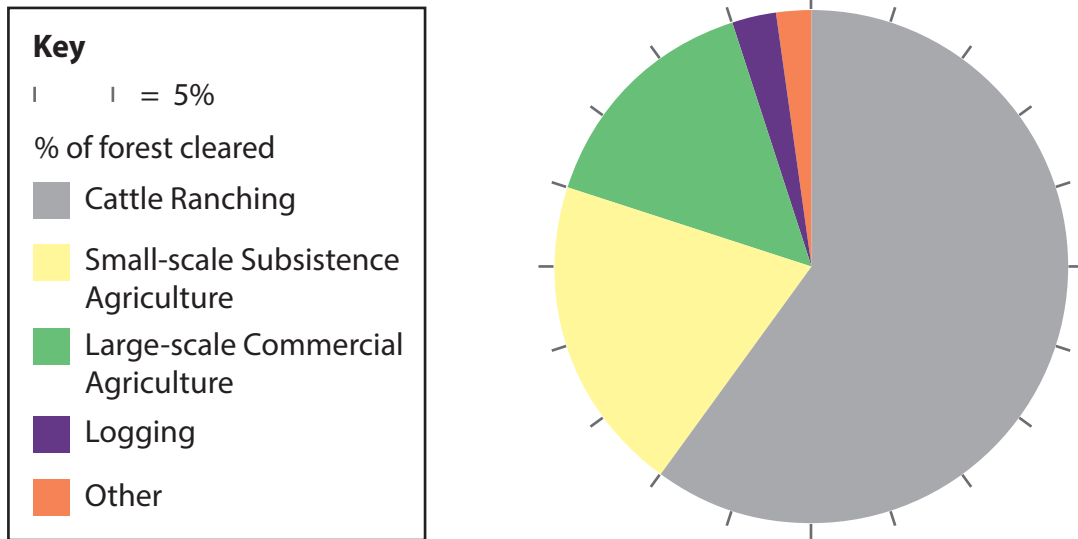


Figure 3

- (a) Study Figure 3.

The following questions are multiple choice. Put a cross in the box of the answer you select. **There is only one correct answer to each question.**

- (i) What was the most important cause of deforestation in Brazil between 2000 and 2005?

(1)

- A Large-scale commercial agriculture
- B Cattle ranching
- C Small-scale subsistence agriculture
- D Other

- (ii) What percentage of total deforestation resulted from small-scale subsistence agriculture?

(1)

- A 10 %
- B 15 %
- C 20 %
- D 25 %



(b) Define the term **biome**.

(2)

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(c) Describe how people use **two** different types of goods produced by the biosphere.

(4)

1 .....

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(d) Explain **two** ways the biosphere can be conserved.

(4)

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**(Total for Question 3 = 12 marks)**

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### Topic 4: Water World

4 Figure 4 shows the percentages of people with access to clean water in four developing countries in 1988 and 2005.

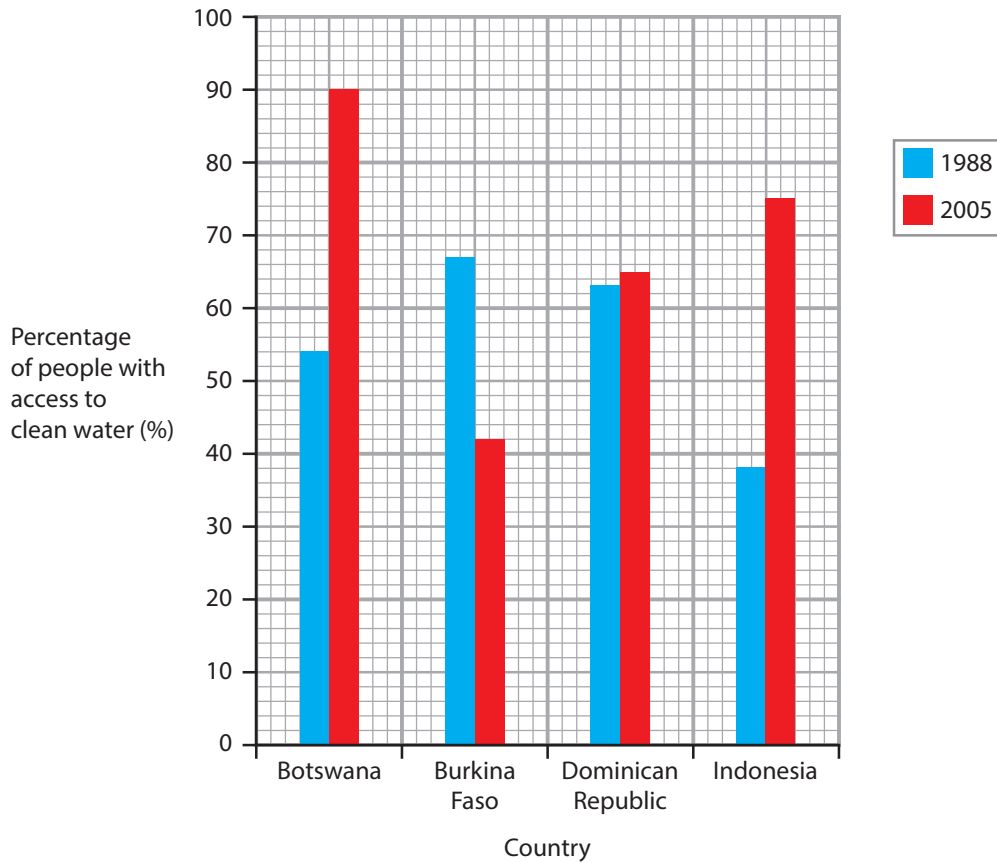


Figure 4

(a) Study Figure 4.

The following questions are multiple choice. Put a cross in the box of the answer you select. **There is only one correct answer to each question.**

(i) In which country did access to clean water fall between 1988 and 2005?

(1)

- A Botswana
- B Burkina Faso
- C Dominican Republic
- D Indonesia

(ii) What percentage of people had access to clean water in Indonesia in 2005?

(1)

- A 38%
- B 60%
- C 75%
- D 82%



(b) Define the term **precipitation**.

(2)

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(c) Describe **two** benefits of large-scale water management schemes.

(4)

1 .....

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(d) Explain how intensive agriculture can affect water quality.

(4)

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**(Total for Question 4 = 12 marks)**

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**TOTAL FOR SECTION A = 48 MARKS**





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**Question 5 is on the next page**



## 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 the management measures used to protect a section of coastline.



(Source: © www.geographyphotos.com)

Figure 5

- (a) Study Figure 5.

The following questions are multiple choice. Put a cross in the box of the answer you select. **There is only one correct answer to each question.**

- (i) Name the hard engineering management measure at X.

(1)

- A Rip-rap (rock armour)
- B Groyne
- C Gabions
- D Sea wall

- (ii) Which of the following **soft** engineering management measures may have been used at Y?

(1)

- A Beach replenishment
- B Managed retreat
- C Planting Marram grass
- D Strategic realignment



(b) Outline how **rock type** affects the rate of coastal retreat.

(2)

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(c) Outline **one** way rapid coastal erosion can affect local people.

(2)

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**Question 6 is on the next page**



## 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 some management measures used to control river flooding.



Figure 6

- (a) Study Figure 6.

The following questions are multiple choice. Put a cross in the box of the answer you select. **There is only one correct answer to each question.**

- (i) Name the type of **hard** engineering at **X**.

(1)

- A** Levee
- B** Dam
- C** Flood gate
- D** Diversion channel

- (ii) Name the type of management measure at **Y**.

(1)

- A** Afforestation
- B** River straightening
- C** Washland
- D** Flood wall



(b) Outline how precipitation can increase the likelihood of river flooding.

(2)

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(c) Outline **one** way river flooding can affect local people.

(2)

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**SECTION C – LARGE-SCALE DYNAMIC PLANET**

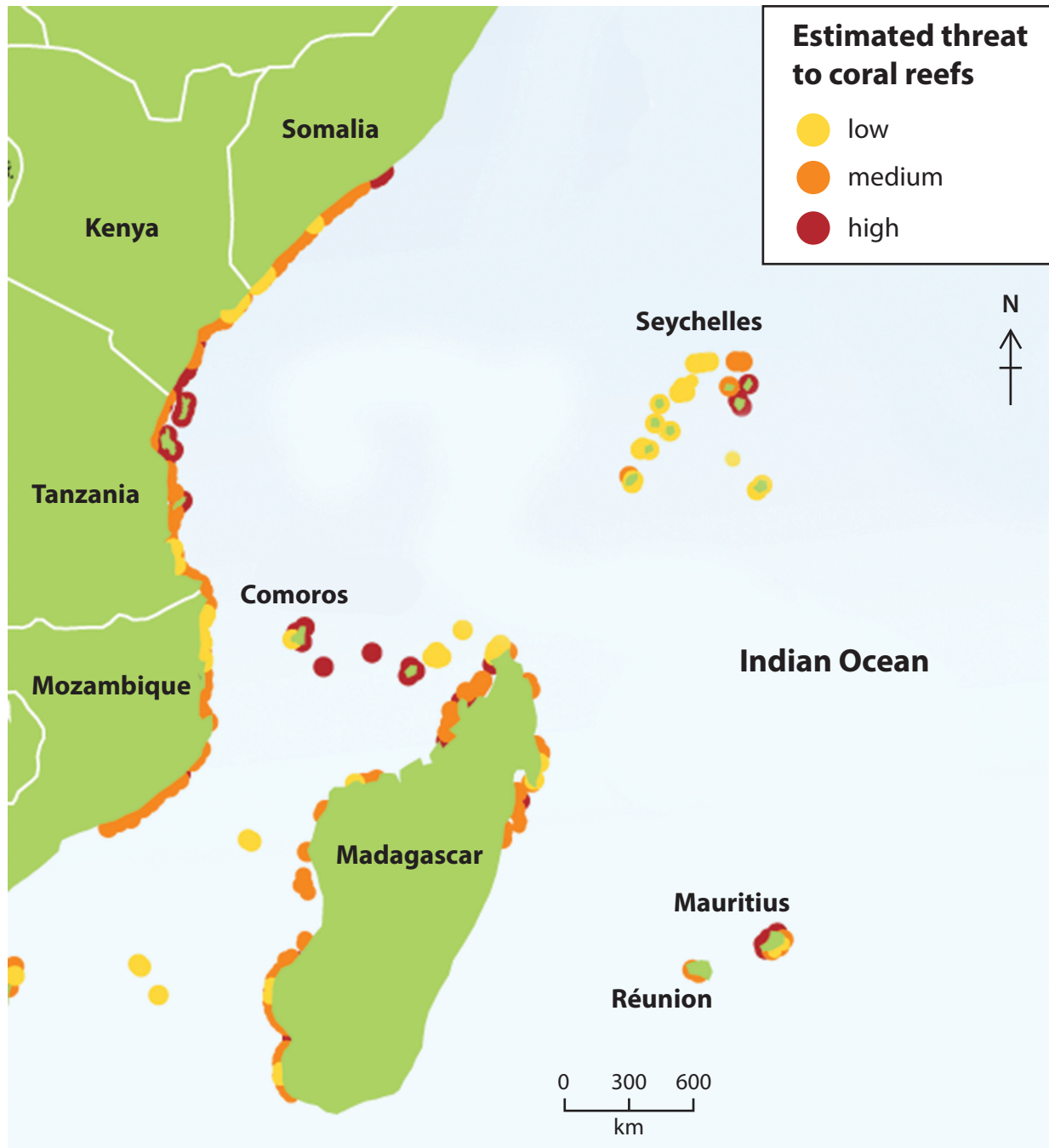
**Answer ONE question in this section.**

**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 estimated threat to coral reefs in part of the Indian Ocean.



(Source: © Phillipe Rekacewiz, UNEP/GRID-Arendal)

**Figure 7**



(a) Study Figure 7.

The following questions are multiple choice. Put a cross in the box of the answer you select. **There is only one correct answer to each question.**

(i) Which of the following island states has **no** reefs at high risk?

(1)

- A** Seychelles
- B** Comoros
- C** Mauritius
- D** Réunion

(ii) How long is Kenya's coastline?

(1)

- A** 100 km
- B** 300 km
- C** 600 km
- D** 1000 km

(b) Give **two local** actions taken to protect marine eco-systems.

(2)

1 .....

2 .....

(c) Outline how **one global** action helps protect marine eco-systems.

(2)

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\* (d) For a named marine eco-system, explain how it is threatened by human actions.

(6)

Named marine eco-system: .....

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**(Total for spelling, punctuation and grammar = 3 marks)**  
**(Total for Question 7 = 15 marks)**



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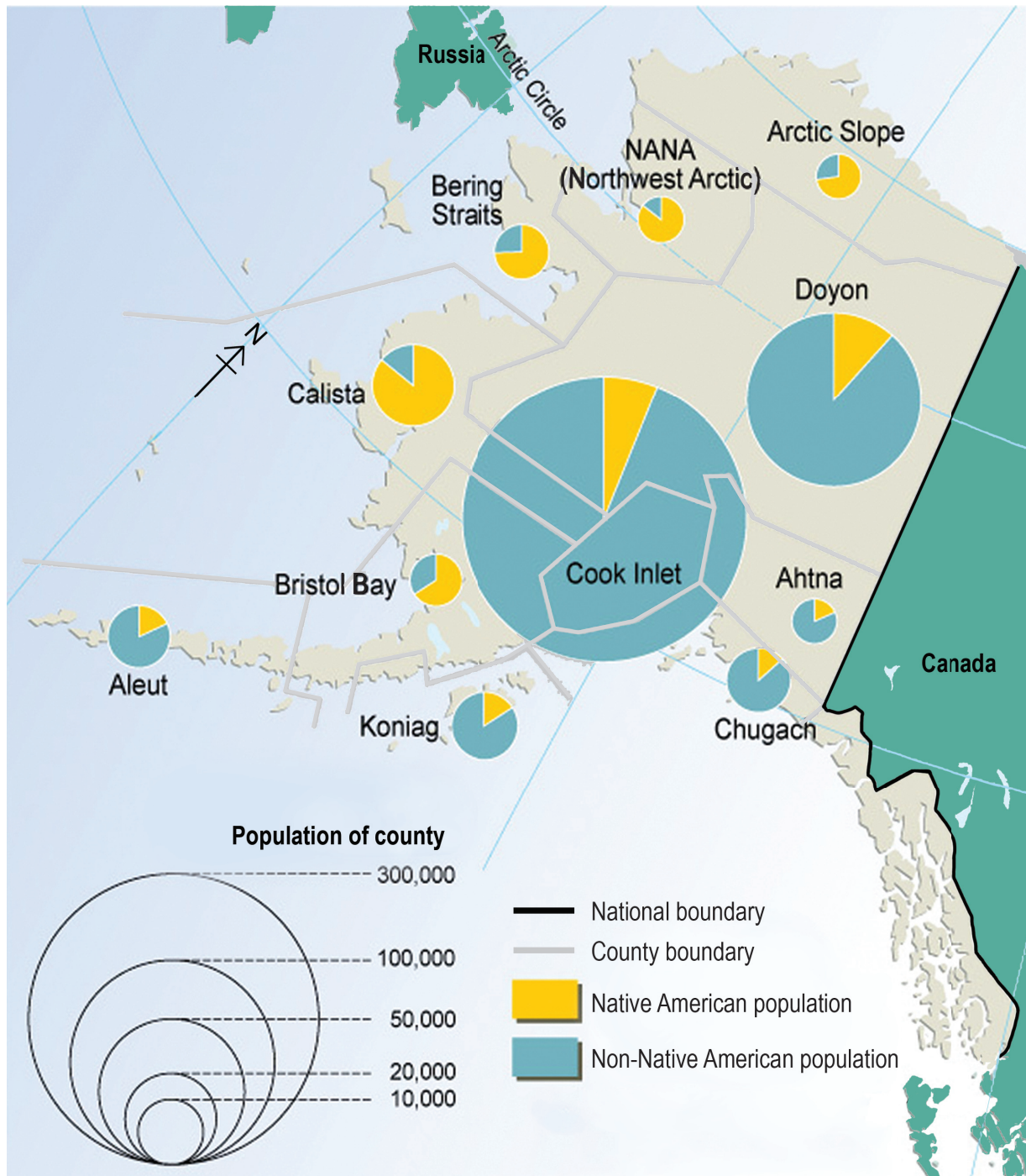
P 4 3 0 7 6 A 0 2 9 3 2

## 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 the population of counties in Alaska, USA.



(Source: © Phillipe Rekacewiz, UNIP/GRID-Arendal)

Figure 8



(a) Study Figure 8.

The following questions are multiple choice. Put a cross in the box of the answer you select. **There is only one correct answer to each question.**

(i) Which county in Alaska has the largest population?

(1)

- A** Arctic Slope
- B** Calista
- C** Cook Inlet
- D** Doyon

(ii) What percentage of the population of Bering Straits County is Native American?

(1)

- A** 25%
- B** 50%
- C** 75%
- D** 100%

(b) Give **two** ways plants have adapted to survive in **hot arid** regions.

(2)

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(c) Outline how **one global** action helps protect extreme environments.

(2)

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\***(d)** Explain how climate change threatens extreme environments.

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

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

