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Other names

**Pearson**  
**Edexcel GCSE**

Centre Number

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Candidate Number

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# Geography B

## Unit 1: Dynamic Planet

**Higher Tier**

Tuesday 24 May 2016 – Afternoon  
**Time: 1 hour 15 minutes**

Paper Reference  
**5GB1H/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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**PEARSON**

**SECTION A – INTRODUCTION TO THE DYNAMIC PLANET**

**Answer ALL questions in this section.**

**Topic 1: Restless Earth**

**1** Figure 1 shows the number of deaths in five major earthquakes.

<b>Year</b>	<b>Location</b>	<b>Magnitude (Richter scale)</b>	<b>Number of deaths</b>
<b>2011</b>	East coast of Japan	9.0	20,900
<b>2010</b>	Haiti	7.0	316,000
<b>2008</b>	Sichuan (China)	7.9	87,600
<b>2007</b>	Peru	8.0	500
<b>2004</b>	NW coast of Sumatra (Indonesia)	9.1	227,900

(Source: © Credit: U.S. Geological Survey, Department of the Interior/USGS 2015)

**Figure 1**

(a) Study Figure 1.

Suggest **one** reason why some earthquakes kill more people than others.

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(b) Explain how volcanoes form on destructive plate boundaries.

You may use a diagram to help your answer.

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\* (c) For a named tectonic hazard event, examine the success of the immediate response and relief efforts.

(6)

Named hazard event: .....

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



## Topic 2: Changing Climate

2 Figure 2 shows the predicted decrease in average rainfall in the UK for the 2080s.

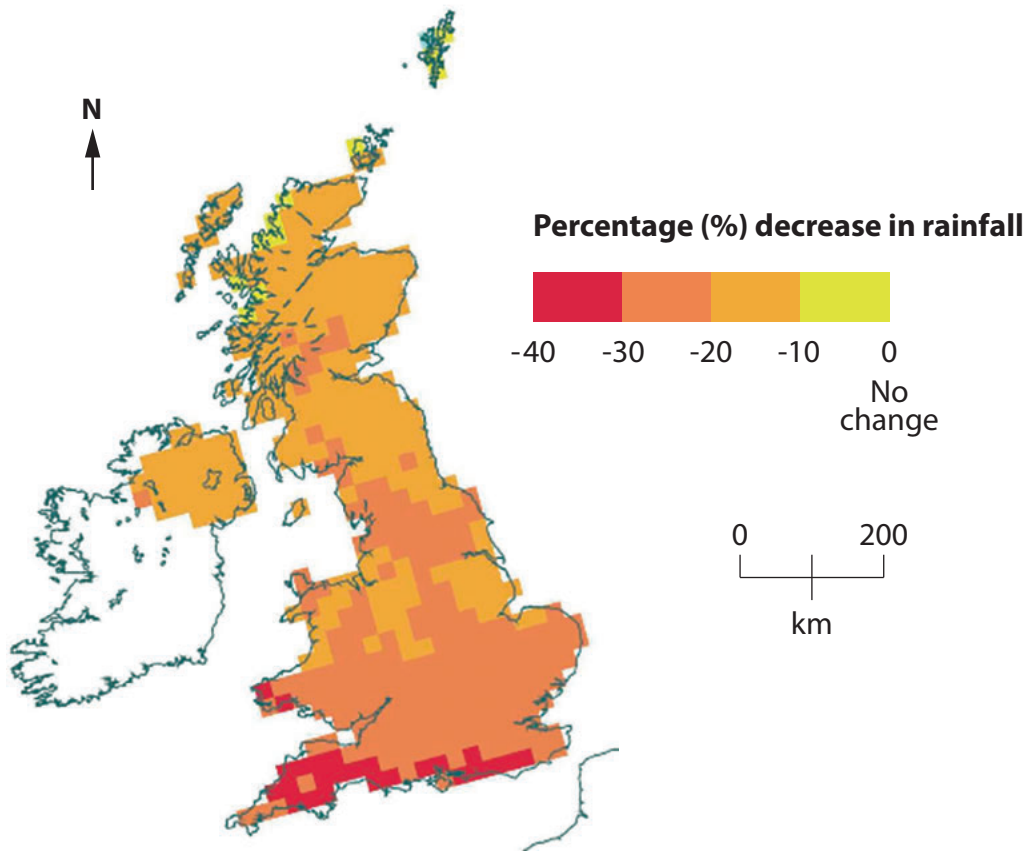


Figure 2

(a) Study Figure 2.

Describe the pattern of predicted changes in rainfall.

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(b) Using examples, describe the impact of climate change on the environment of the UK.

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\* (c) Explain how natural causes can result in climate change.

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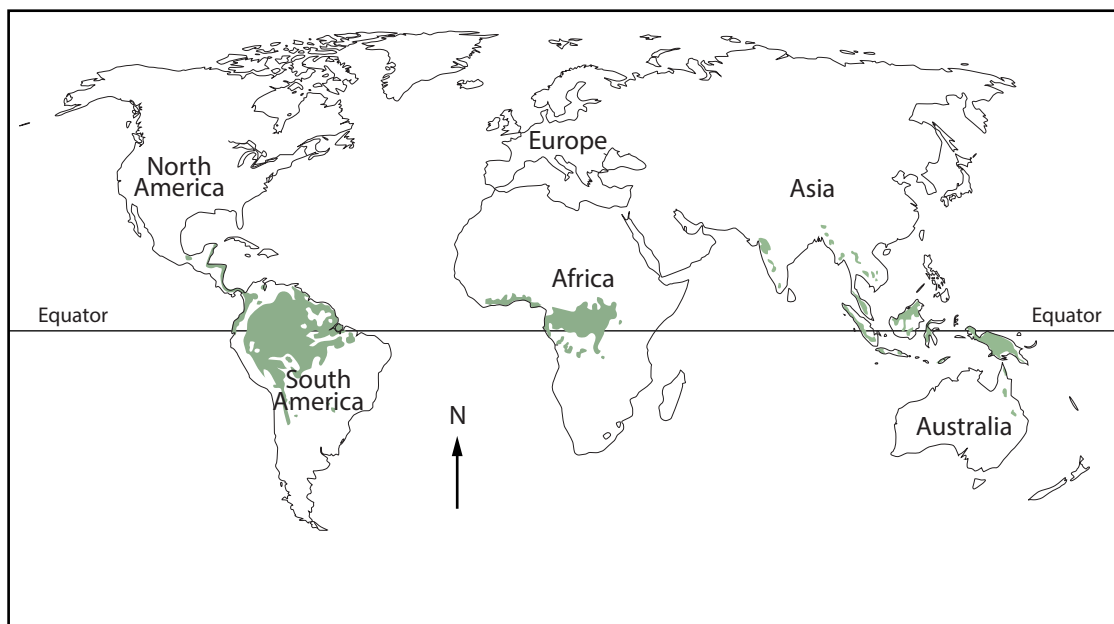
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**(Total for Question 2 = 12 marks)**



### Topic 3: Battle for the Biosphere

3 Figure 3 shows the location of the tropical rainforest biome.



**KEY**  
■ = tropical rainforest biome

(Source: © Mongabay.com 2015)

**Figure 3**

(a) Study Figure 3.

Outline **one** reason for the distribution of tropical rainforests.

(2)

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(b) Explain **two** ways in which the biosphere regulates the composition of the atmosphere.

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\*(c) For **either** a national **or** a local approach, explain how management measures can help conserve the biosphere.

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





### Topic 4: Water World

4 Figure 4 summarises some of the benefits and costs of dams.

Large-scale water management schemes such as dams and reservoirs provide important benefits. They generate hydro-electric power and provide water for the irrigation of crops. They also help to manage floods, create waterways for transport and provide recreational opportunities.

However, dams come with significant costs. Dams have changed the ecosystems of very many rivers around the world. They have damaged habitats, flooded valuable farmland and disrupted populations of fish and wildlife. They have also damaged local economies and communities.

Figure 4

(a) Study Figure 4.

Outline how building dams might reduce food production.

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(b) Describe **two** processes of the hydrological cycle that return water to the oceans.

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\* (c) Using examples, explain how human activities can disrupt water supply.

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

**TOTAL FOR SECTION A = 48 MARKS**

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**SECTION B BEGINS 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\*(b).**

**5** Figure 5 shows a satellite image of part of the Hampshire coastline.



(Source: © 2015 Google Earth)

**Figure 5**

(a) Study Figure 5.

(i) Name the process that is taking place along the coastline shown by arrow **Y**.

(1)



(ii) The landform in **Box X** is a spit.

Describe how swash and backwash can lead to the formation of a spit.

You may use a diagram to help your answer.

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\* (b) For a named coastline, explain why there are conflicting views on how it should be managed.

(8)

Named coastline: .....

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**(Total for Question 5 = 15 marks)**

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**QUESTION 6 BEGINS 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\*(b).

- 6 Figure 6 shows a satellite image of part of the Kamchatka River, Russia.



(Source: © 2015 Google Earth)

**Figure 6**

(a) Study Figure 6.

- (i) Name the process taking place at the locations labelled **Y**.

(1)

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(ii) The landform in **Box X** is an oxbow lake.

Describe how a river meander develops into an oxbow lake.

You may use a diagram to help your answer.

(3)

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\*(b) Using named examples, explain why some flood management schemes have been more successful than others.

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

**(Total for Question 6 = 15 marks)**

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**TOTAL FOR SECTION B = 15 MARKS**

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**QUESTION 7 BEGINS ON THE NEXT PAGE.**



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

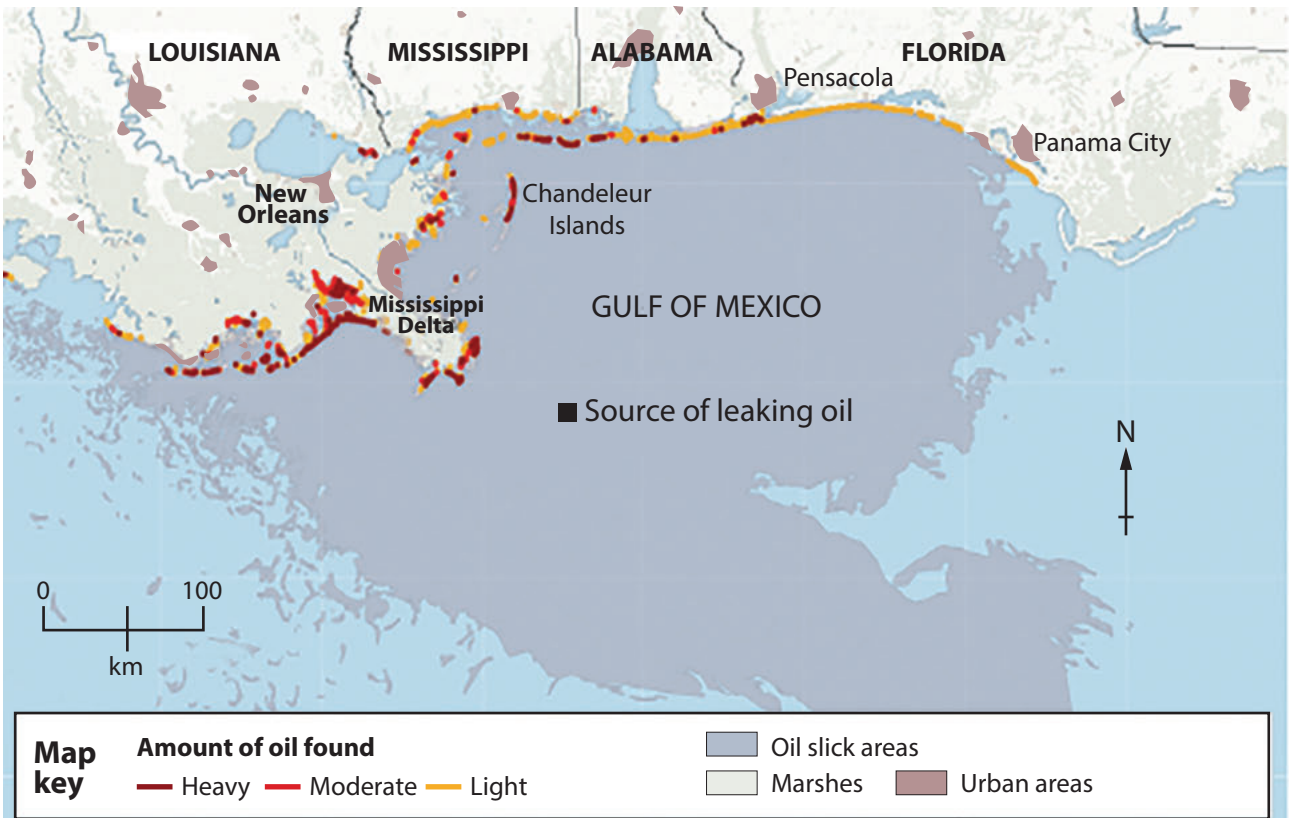
**Answer ONE question in this section.**

**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\*(b).**

- 7** Figure 7 shows pollution levels on the southern coastline of the USA after an oil rig accident.



**Figure 7**

(a) Study Figure 7.

- (i) Describe the pattern of oil pollution along the coastline.

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(ii) State **one** way, other than oil pollution, that human activity can affect water quality on the coastline.

(1)

\* (b) Examine the effectiveness of global actions in maintaining ocean health.

(8)

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

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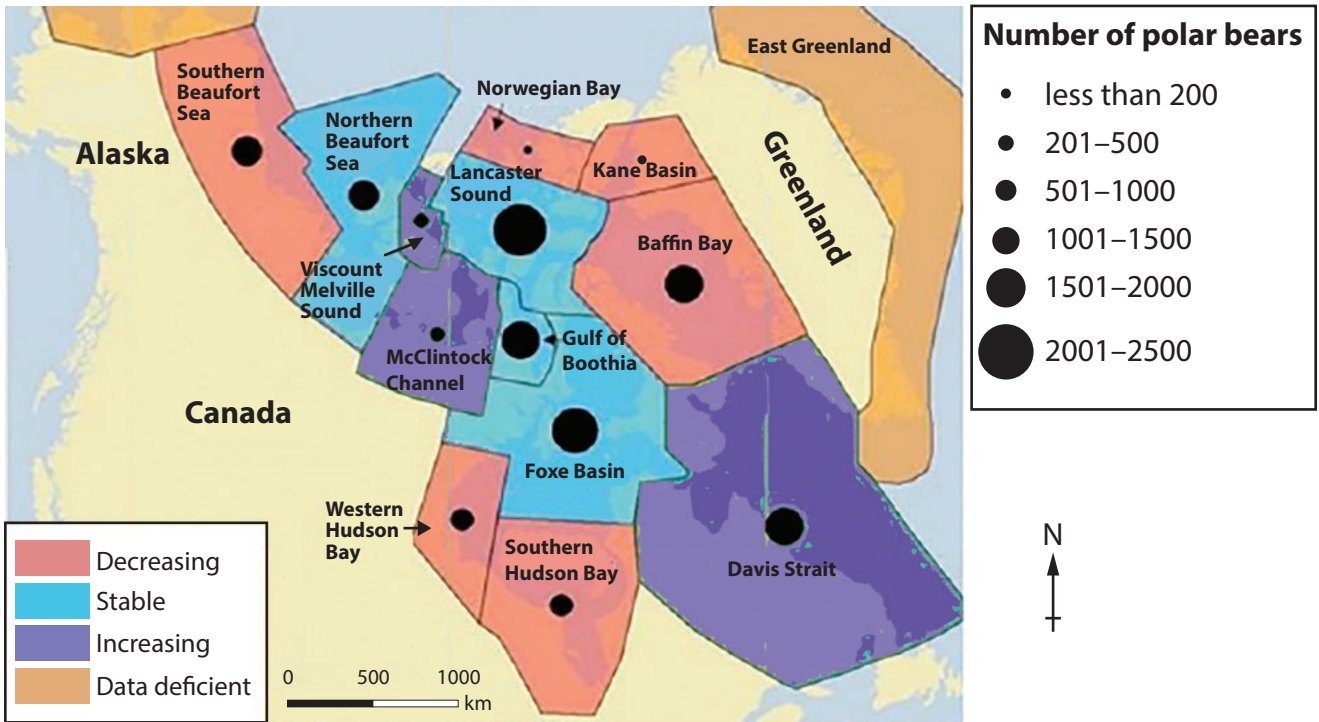


**Topic 8: Extreme Environments**

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

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

**8** Figure 8 shows the polar bear population in North America and Greenland.



**Figure 8**

(a) Study Figure 8.

(i) Describe the pattern of the polar bear population.

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(ii) State **one** reason why climate change would affect the numbers of polar bears. (1)

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\* (b) Examine how climate change threatens the traditional economies of extreme environments. (8)

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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**

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