

## GCSE (9–1) Geography A (Geographical Themes) J383/02 The World Around Us Sample Question Paper

### Date – Morning/Afternoon

Time allowed: 1 hour

**You must have:**

- the Resource Booklet

**You may use:**

- a ruler (cm/mm)
- a piece of string
- a scientific or graphical calculator



<b>First name</b>											
<b>Last name</b>											
<b>Centre number</b>											
<b>Candidate number</b>											

### INSTRUCTIONS

- Use black ink. You may use an HB pencil for graphs and diagrams.
- Complete the boxes above with your name, centre number and candidate number.
- Answer **all** the questions.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the barcodes.
- The separate Resource Booklet will be found inside this document.

### INFORMATION

- The total mark for this paper is **60**.
- The marks for each question are shown in brackets [ ].
- Quality of extended responses will be assessed in questions marked with an asterisk (\*).
- Spelling, punctuation and grammar and the use of specialist terminology (SPaG) will be assessed in questions marked with a pencil (✎).
- This document consists of **12** pages.

Answer **all** the questions.  
**Ecosystems of the Planet**

1 Use **Fig. 1** in the separate Resource Booklet.

(a) Study **Fig. 1**, a diagram showing part of a polar marine ecosystem.

(i) Describe how the cod, seal and polar bear shown in **Fig. 1** are connected in this ecosystem.

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[2]

(ii) Which of the following is a biotic component in the polar marine ecosystem shown in **Fig. 1**?

- A carbon dioxide
- B phytoplankton
- C seafloor
- D sun's energy

Write the correct letter in the box.

[1]

(b) Describe the climate found in tropical savannah grassland ecosystems.

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[3]

- (c) The Amazon Rainforest in Brazil experiences deforestation. Between 2012 and 2013 6 000 km<sup>2</sup> of rainforest was cleared. In two Brazilian states there was a combined total of 2 400 km<sup>2</sup> of rainforest cleared between 2012 and 2013.

Calculate the percentage of rainforest cleared in the two states out of the total rainforest lost between 2012 and 2013.

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[1]

- (d) Explain how nutrients are recycled in the tropical rainforest.

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[4]

SPECIMEN

(e)\* 'Tropical rainforests experience greater threats to their biodiversity than coral reefs.'

To what extent do you agree with this statement?

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[8]

People of the Planet

2 Study Fig. 2 in the separate Resource Booklet, which shows Human Development Index (HDI) scores for countries of the world.

- (a) (i) Which of the following development indicators is used as part of the HDI calculation?
  - A Birth rate per 1000 people per year
  - B Infant mortality rate
  - C Internet users
  - D Life expectancy at birth

Write the correct letter in the box.

[1]

(ii) Using Fig. 2, describe the pattern of HDI scores for countries of the world.

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(b) (i) Using Fig. 3, calculate the percentage increase of the predicted urban population between 2015 and 2050.

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[1]

(ii) There are a number of push and pull factors that cause rapid urbanisation in low-income developing countries (LIDCs).

Explain how **two** push factors cause rapid urbanisation in LIDCs.

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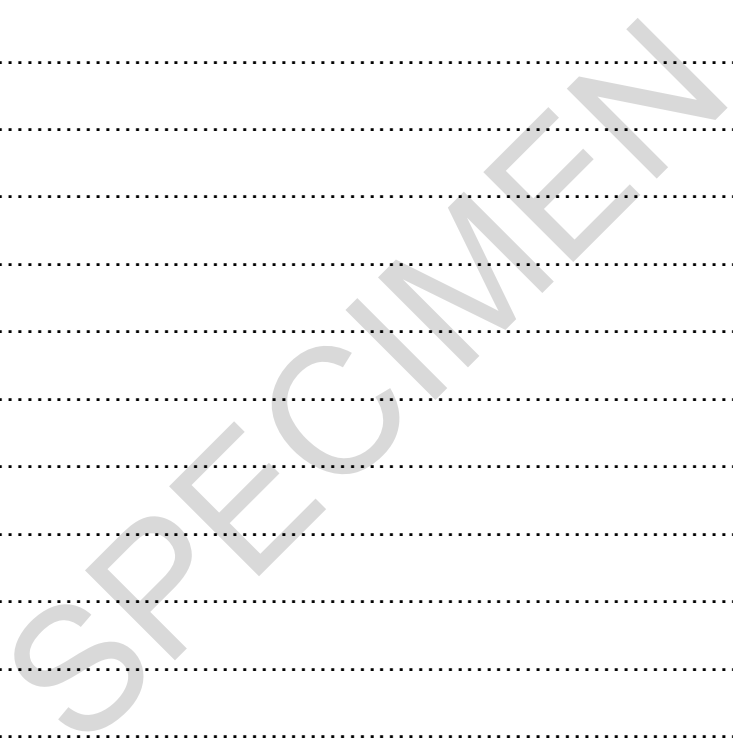
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**[4]**

**(c)\*** Examine how far migration influences the growth and character of cities in LIDCs or EDCs.  
Use case study knowledge in your answer.

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**[12]**

 Spelling, punctuation and grammar and the use of specialist terminology **[3]**

### Environmental threats to our Planet

3 Study **Figs 4, 5 and 6** in the separate Resource Booklet.

(a) Study **Fig. 4**, a line graph showing climate changes between the years 1000 and 1900.

Which of these years was in the medieval warm period?

- A 1200
- B 1500
- C 1700
- D 1900

Write the correct letter in the box.

[1]

(b) Study **Fig. 5**, a cartoon showing an artist's impression of global warming.

Using evidence from **Fig. 5**, explain how human activity creates the enhanced greenhouse effect.

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[4]

(c) Study **Fig. 6**, a map showing the consequences of climate change split into three categories (physical, biological and human)

Using **Fig. 6**, state which category has been affected most by the consequences of climate change. Give a reason for your answer.

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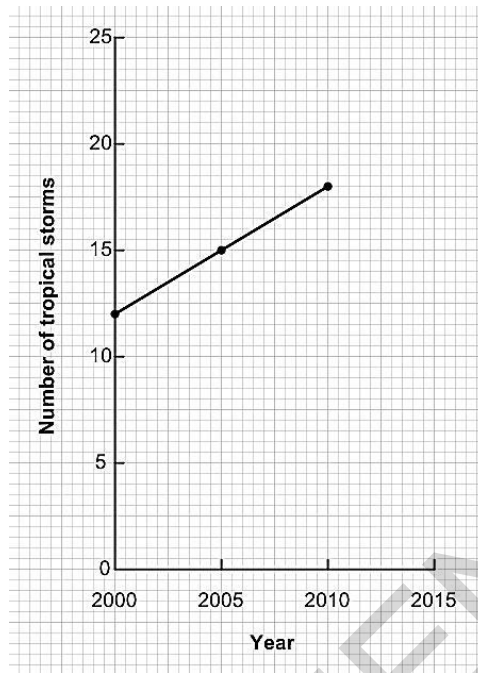
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[2]

**Graph to show the number of tropical storms globally**



**(d)** Using the graph above, make a prediction for the number of tropical storms globally in 2015.

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**(e)** Explain the distribution of tropical storms and whether this has changed over time.

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**(f) CASE STUDY – Drought caused by El Niño/La Niña**

Drought studied: .....

Explain how El Niño/La Niña leads to drought in your case study area

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**[6]**

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