OCR
Oxford Cambridge and RSA

Wednesday 5 June 2019 – Afternoon

GCSE (9–1) Geography A
(Geographical Themes)

J383/02 The World Around Us

Time allowed: 1 hour

You must have:
- the Resource Booklet (inserted)

You may use:
- a scientific or graphical calculator
- a ruler (cm/mm)

Please write clearly in black ink. **Do not write in the barcodes.**

Centre number | | | | | | Candidate number | | | | |

First name(s) _____

Last name _____

INSTRUCTIONS
- The separate Resource Booklet will be found inside this document.
- Use black ink. You may use an HB pencil for graphs and diagrams.
- Answer **all** the questions.
- Write your answer to each question in the space provided. If additional space is required, use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.

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 **(a)** Study **Fig. 1**, a map showing the global distribution of tropical rainforests.

Describe the distribution of tropical rainforests shown on **Fig. 1**.

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(b) State **two** climatic conditions needed for a tropical rainforest to grow.

1 .....

2 .....

[2]

(c) Study the table below about areas of tropical rainforest in five countries.

Country	2005 rainforest area (km^2)	2015 rainforest area (km^2)	% loss of rainforest area
Bolivia	**58 734**	**54 764**	**6.8**
Brazil	**506 734**	**493 538**	**2.6**
Colombia	**60 201**	**58 502**	
Ecuador	**13 335**	**12 548**	**5.9**
Peru	**75 528**	**73 973**	**2.1**

(i) Calculate the percentage loss of rainforest area for Colombia.

Give your answer to one decimal place. ..... **[1]**

(ii) How might sustainable use and management explain why some countries have lower rates of rainforest loss?

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(d) Study **Fig. 2**, which shows the water cycle in a tropical rainforest.

Using **Fig. 2**, explain **two** ways in which cutting down trees changes the water cycle.

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[4]

(e) CASE STUDY – Coral reef interdependence

For **one** named coral reef, explain the interdependence of climate, plants and animals.

Coral reef studied: .....

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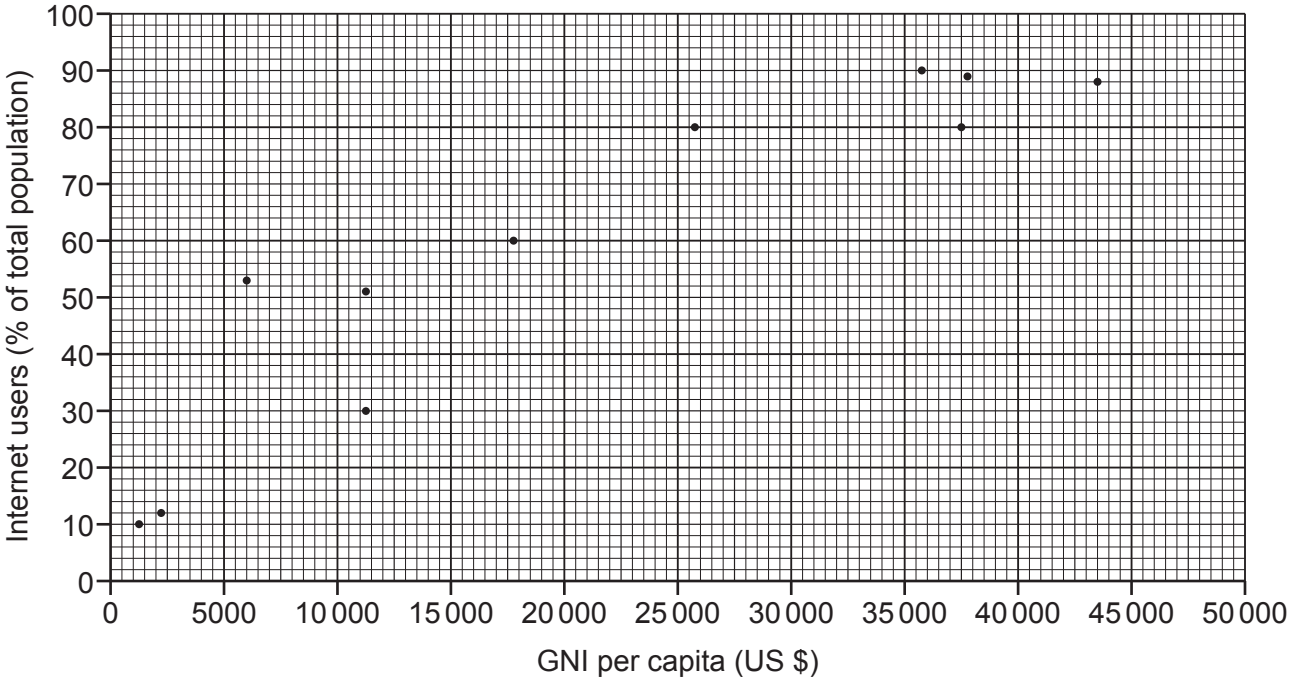
People of the Planet

2 **(a)** Study the scatter graph below which shows the relationship between GNI per capita and internet users for selected countries.

GNI per capita and internet users for selected countries



(i) Use the following data for the country of Jamaica to add a point to the scatter graph.

GNI per capita = $8,500 Internet users = 45%. **[1]**

(ii) Add a best fit line to the scatter graph. **[1]**

(iii) Study the completed scatter graph.

Which one of the following statements describes the relationship between GNI per capita and internet users?

A The higher the GNI per capita the higher the % of internet users
B The higher the GNI per capita the lower the % of internet users
C The lower the GNI per capita the higher the % of internet users
D There is no clear relationship between the GNI per capita and the % of internet users

Write the correct letter in the box. ☐ **[1]**

(iv) Explain how development indicators show evidence of economic development.

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(b)* CASE STUDY – Sustainable strategies in an LIDC or EDC city

To what extent have sustainable strategies overcome **one** of the city's challenges?

LIDC or EDC city studied: ....

.... **[12]**

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

Environmental threats to our Planet

3 (a) (i) Which of the following statements describes the circulation of air at the North Pole?

A Rising cool, dry air

B Rising warm air

C Sinking cold, dry air

D Sinking warm, moist air

Write the correct letter in the box. ☐ **[1]**

(ii) Which of the following statements describes the circulation of air at the Equator?

A Cool, dry air descends

B Cool, dry air rises

C Warm, moist air rises

D Warm, moist air sinks

Write the correct letter in the box. ☐ **[1]**

(iii) Explain how the global circulation of the atmosphere is controlled by the movement of air between the poles and the Equator.

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(b) Outline **two** theories of natural causes of climate change.

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[4]

(c) Study **Fig. 3**, a cartoon about climate change.

Using evidence from **Fig. 3**, explain **one** way that climate change may affect people's lives.

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(d)* Assess which evidence of global climate change is considered to be the most reliable.

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END OF QUESTION PAPER

ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).