

Write your name here

Surname

Other names

Centre Number

Candidate Number

Pearson Edexcel
Level 1/Level 2 GCSE (9–1)

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Geography A

Paper 1: The Physical Environment

Tuesday 22 May 2018 – Afternoon
Time: 1 hour 18 minutes

Paper Reference
1GA0/01

You must have:
Resource Booklet (enclosed)
Calculator

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.
-
- You must answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- Where asked you must **show all your working out** with **your answer clearly identified** at the **end of your solution**.

Information

- The total mark for this paper is) *.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*
-

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

The Changing Landscapes of the UK

Answer all parts of Question 1. Write your answers in the spaces provided.

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 UK landscapes are made up of different rock types.

(a) (i) Identify **one** example of an igneous rock.

(1)

- A chalk
- B granite
- C sandstone
- D schist

(ii) State **one** characteristic of igneous rocks.

(1)

(b) Freeze thaw is an example of a weathering process.

State **one** other weathering process that affects the landscape.

(1)

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(c) Study Figure 1 below.

(i) Label the landform feature **Y** shown on Figure 1.

(1)

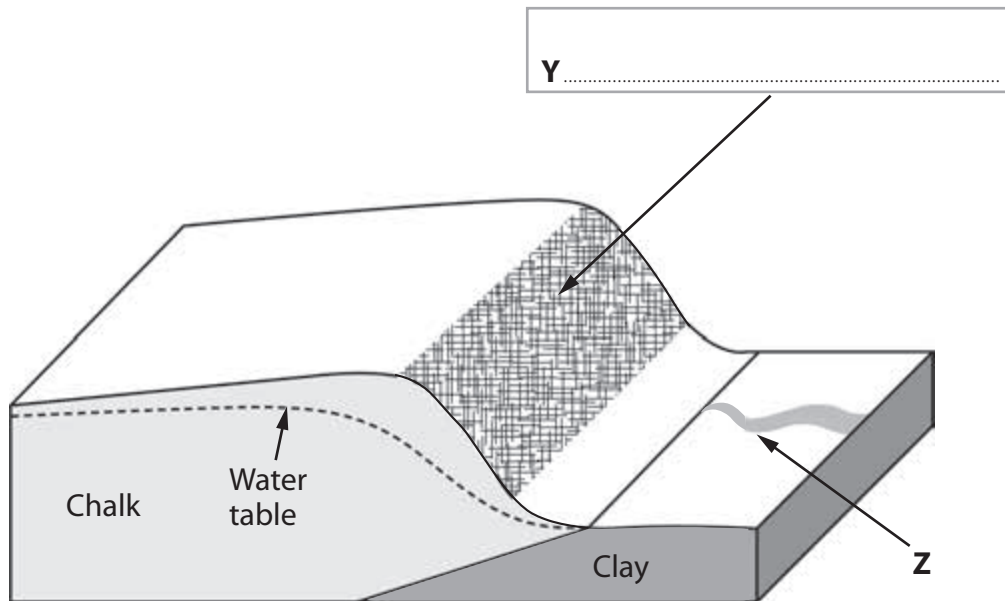


Figure 1

A geological cross-section through a lowland (sedimentary) landscape

(ii) Explain **one** reason why a stream is found at **Z**.

(2)

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(Total for Question 1 = 6 marks)



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Question 2: River Landscapes and Processes



River landscapes are constantly being changed by different processes.

(a) State **one** type of erosion that takes place in a river. (1)

(b) State **one** type of erosion that takes place in a river. (1)

(c) The velocity of a river changes with distance downstream.
Explain **one** reason why river velocity usually increases with distance downstream. (2)



P 5 2 3 6 4 A 0 7 2 8

(d) Study Figure \$S in the Resource Booklet.

Examine the role of different physical processes in the formation of the meander shown in Figure \$Sž

(8)

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(Total for Question 2 = 12 marks)

Total for Section A = 18 marks



SECTION B

Weather Hazards and Climate Change

Answer all questions in this section. Write your answer in the spaces provided.

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 ☒.

% Global climate is changing due to natural causes and human activities.

(a) (i) Identify **one** natural cause of climate change.

(1)

- A factories
- B volcanoes
- C rice farming
- D car exhaust

(ii) State **two** greenhouse gases.

(2)

1

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(b) Study Figure %below.

Mean monthly temperature (°C)	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec
	5	5	7	10	13	15	18	17	15	10	7	5

Figure 3

Mean monthly temperatures in Reading, England

(i) Calculate the modal value of the mean monthly temperatures shown in Figure %

(1)

.....°C

(ii) Explain **one** reason why temperature varies seasonally in the UK.

(3)

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(Total for Question 3 = 7 marks)

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4 Tropical cyclones develop under specific conditions and in certain locations.

(a) Study Figure 8a in the Resource Booklet.

(i) Identify which latitudinal zone is affected most by tropical cyclones.

(1)

- A 30°N – 60°N
- B 10°N – 30°N
- C 0° – 10°N
- D 0° – 10°S

(ii) Explain **one** reason why tropical cyclones do not travel far inland.

(3)

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(c) State **two** reasons why a drought may be hazardous to people.

(2)

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2

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(d) Study Figure &d in the Resource Booklet.

Suggest **two** reasons why deforestation in Queensland may cause drought.

(4)

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(Total for Question 4 = 23 marks)

TOTAL FOR SECTION B = 30 MARKS



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SECTION C

Global Development

Answer ALL questions in this section.
Write your answers in the spaces provided.

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 ☒.

' Levels of development are different around the world due to a combination of physical and human factors.

(a) Name **one** indicator used in the calculation of the Human Development Index (HDI). (1)

(b) Study Figure ' a in the Resource Booklet.

(i) Identify **one** country labelled on Figure ' a with a medium HDI. (1)

- A** USA
- B** India
- C** Madagascar
- D** Brazil

(ii) Identify the continent on Figure ' a that has the highest number of countries with a very high HDI. (1)

(iii) State **two** disadvantages of the method of presentation shown on Figure ' a. (2)

1

2

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(c) State **one** physical factor that has led to variations in the level of development across the UK.

(1)

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(d) Study Figure ' b in the Resource Booklet.

(i) Identify the **two** countries with the highest GDP per capita.

(1)

- A** Morocco and Kenya
- B** France and Qatar
- C** Qatar and Spain
- D** Kenya and Thailand

(ii) Calculate the median GDP per capita for the countries shown on Figure ' b.

(1)

..... US\$

(iii) Explain **two** reasons why GDP per capita is often lower in the periphery regions of a country.

(4)

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- (e) Changes in population structure over the last 30 years have influenced the development of developing and emerging countries.

Study Figure 'c below.

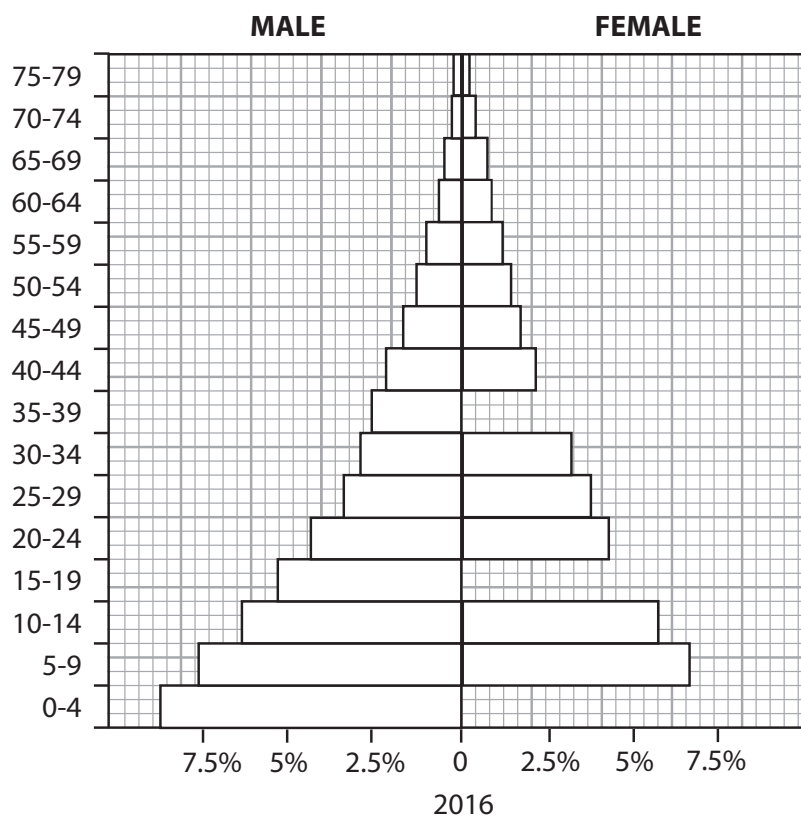
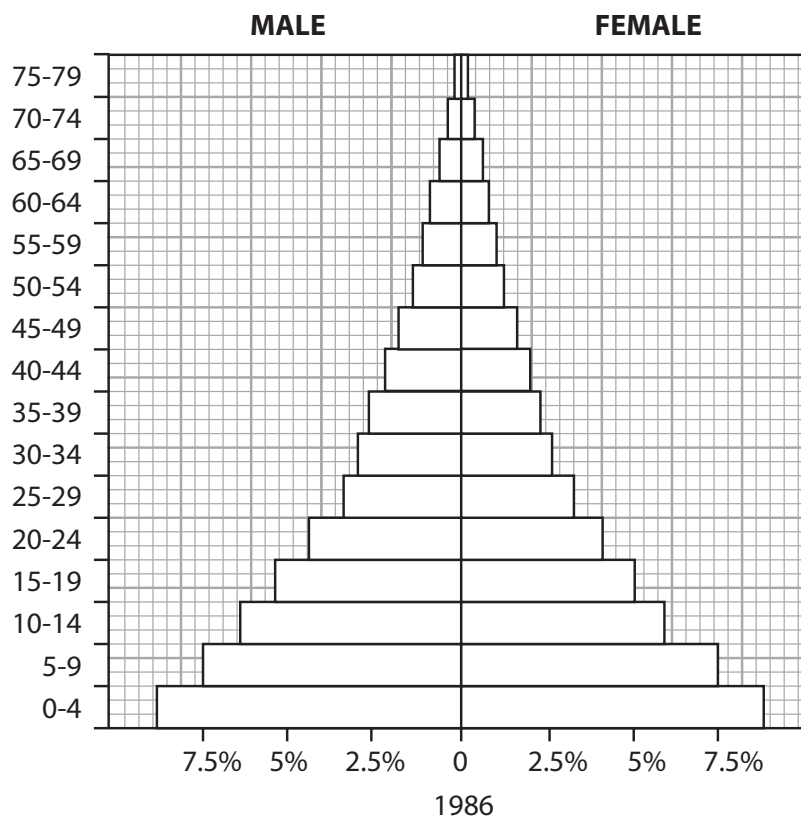


Figure 5c

Population pyramids for Ghana, a developing country, 1986 and 2016



(i) Plot the data below to complete the 2016 population pyramid on Figure ' c.

(3)

Age group (female)	Percentage (%) population
0-4	7.5
15-19	5.0
35-39	2.5

(ii) Identify the total percentage of 5-9 year olds in 1986.

(1)

- A 7.5%
- B 10%
- C 12.5%
- D 15%

(iii) State **two** possible reasons for the decrease in the 0-4 age group shown on Figure ' c.

(2)

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P 5 2 3 6 5 A 0 1 3 2 8

(f) Explain **two** ways geopolitical relationships have affected the development of **either** a named developing **or** emerging country.

(4)

Named developing or emerging country

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(g) Assess the positive and negative impacts of rapid development on **either** a named developing **or** emerging country.

(8)

Named developing or emerging country

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(Total for Question 5 = 30 marks)

TOTAL FOR SECTION C = 30 MARKS



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Mock Exam

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Resource Booklet

Paper Reference

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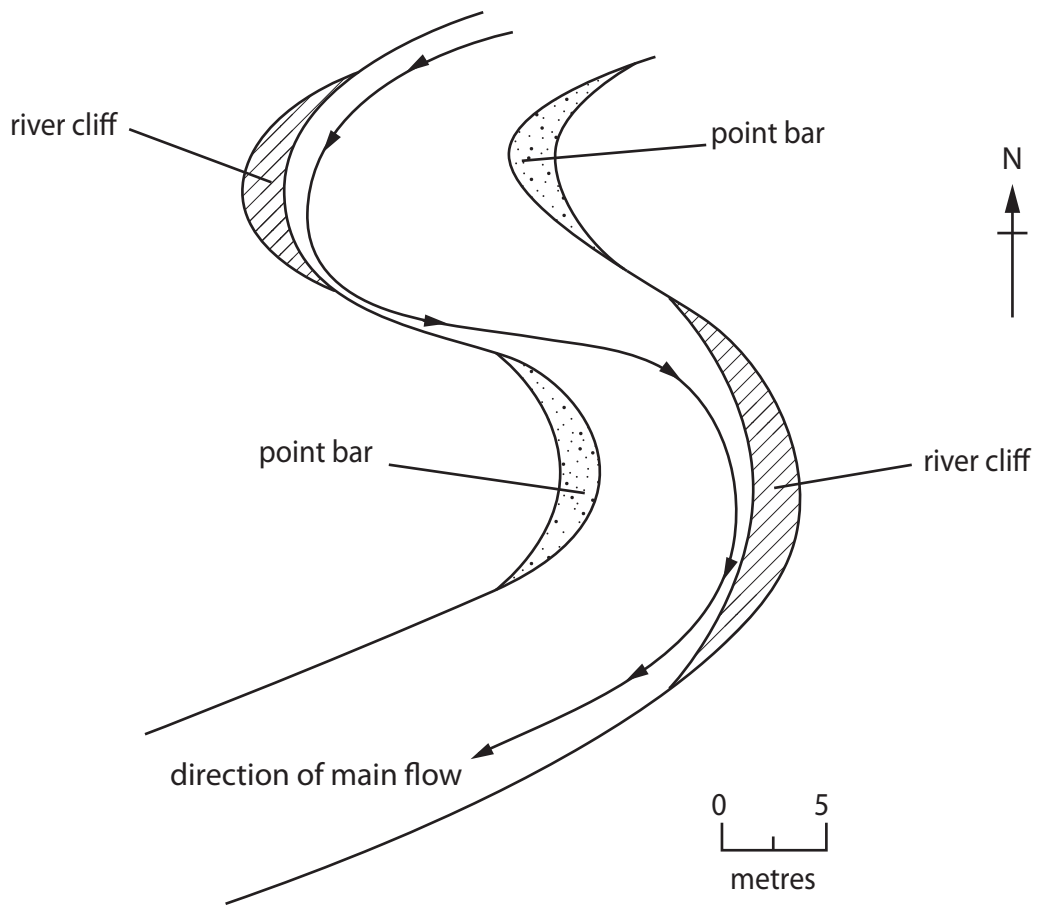


Figure 3b
A diagram showing a meander

SECTION B

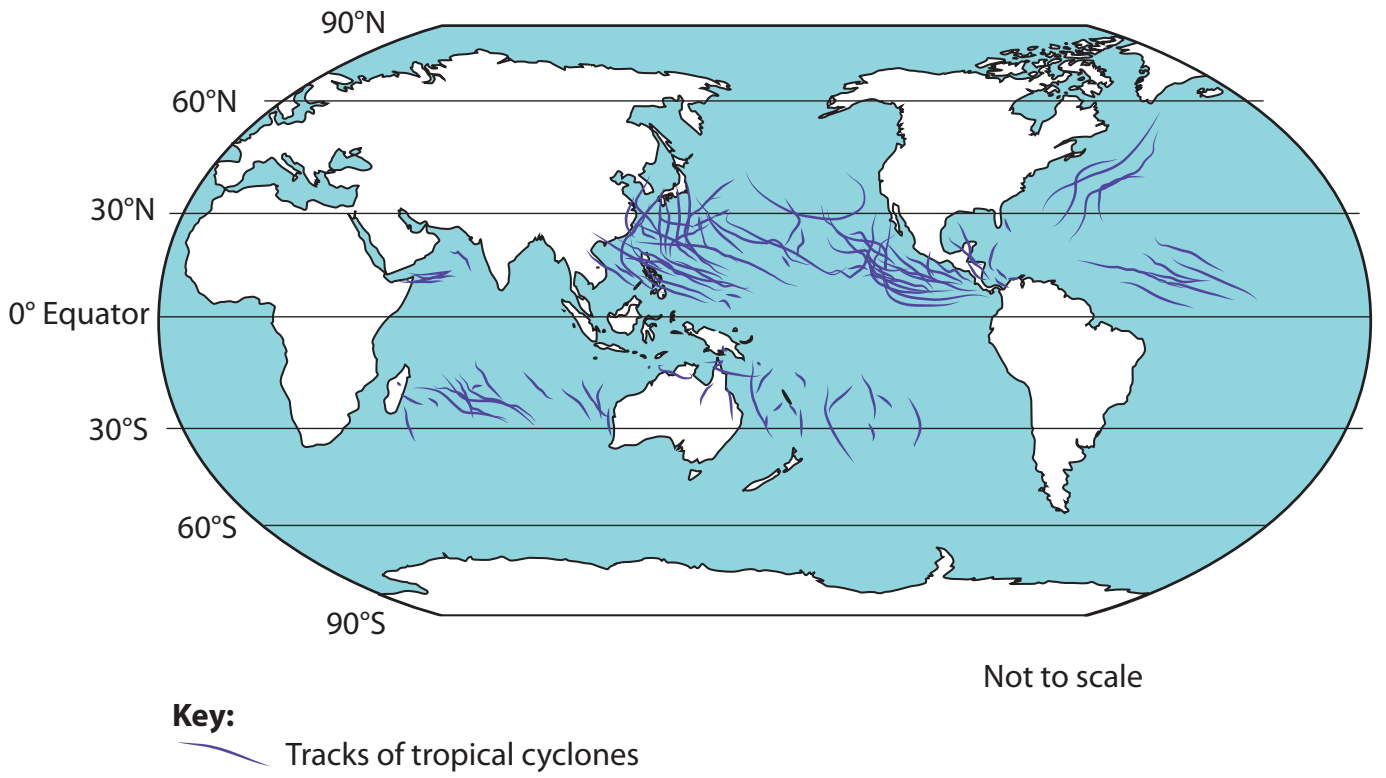


Figure 4a

Map showing the tracks of tropical cyclones in 2015

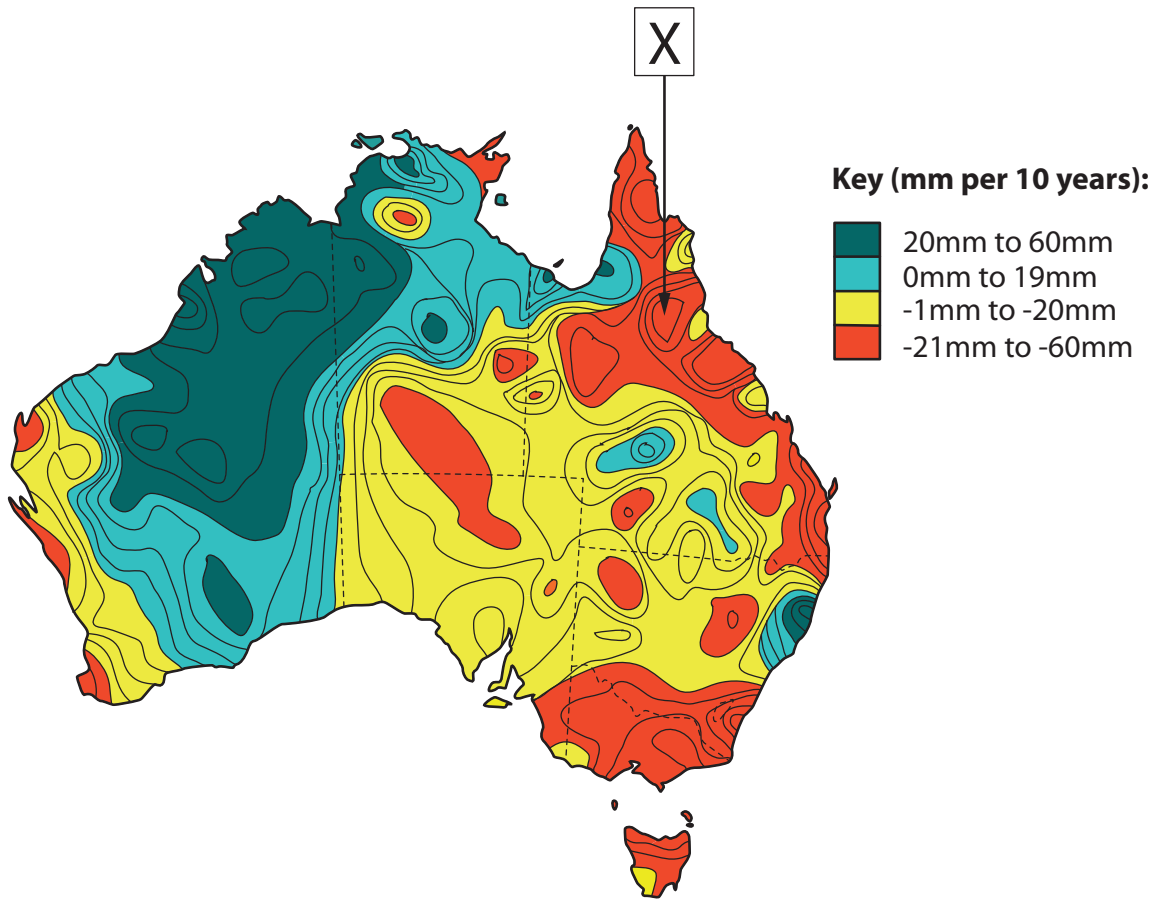


Figure 4c

Map showing the change in total rainfall in Australia per 10 years, 1970-2010



1. The rate of deforestation tripled between 2008/9 and 2013/14.
2. Deforestation in Queensland is contributing to nearly a third of Australia's rising CO₂ emissions.

Figure 4d

An aerial photograph showing an area of forest clearance in Queensland, Australia

SECTION B

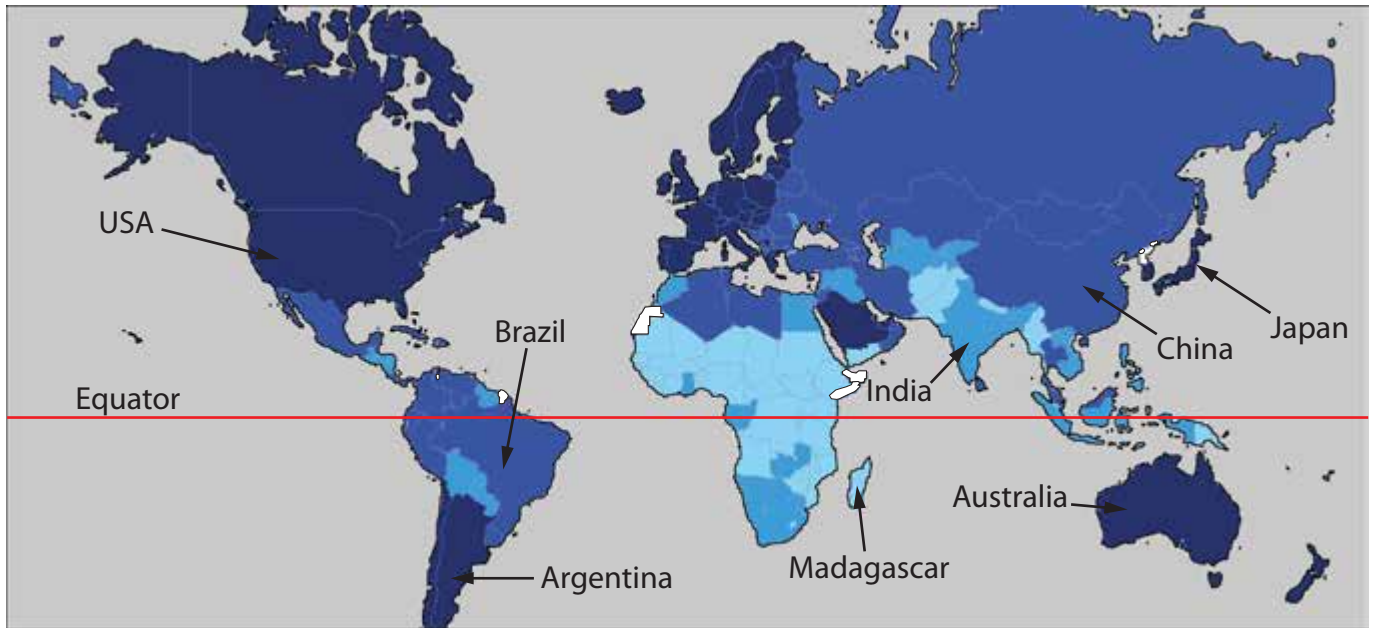


Figure 5a
Human Development Index (HDI), 2015

Country	GDP per capita (US\$)
Botswana	6 361
France	36 248
Hungary	12 259
Kenya	1 377
Morocco	2 872
Qatar	74 667
Spain	25 832
Thailand	5 816
Uruguay	15 574

Figure 5b

Gross Domestic Product (GDP) per capita (US\$) for selected countries, 2015