GradeMax

Please check the examination details below before entering your candidate information

Candidate surname	Other names

Centre Number | Candidate Number

Pearson Edexcel International Advanced Level

Time 1 hour 45 minutes

Paper reference **WGE01/01**

Geography

International Advanced Subsidiary
PAPER 1: Global Challenges

You must have:
Resource Booklet (enclosed)

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.
- Answer **all** questions in Section A. Answer **either** Question 5 **or** Question 6 in Section B.
- Answer the questions in the spaces provided
  – *there may be more space than you need.*

Information

- The total mark for this paper is 90.
- The marks for **each** question are shown in brackets
  – *use this as a guide as to how much time to spend on each question.*
- Calculators may be used.

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

You must use the Resource Booklet

Answer ALL questions. 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 Study Figure 1 in the Resource Booklet.

(a) (i) What is the main direction of the tropical cyclone tracks shown over North America?

(1)

☒ **A** From South East to North West

☒ **B** From South West to North East

☒ **C** From North West to North East

☒ **D** From North East to South East

(ii) Describe the distribution of tropical cyclone tracks shown.

(2)

(iii) Explain **one** reason for the distribution of tropical cyclone tracks shown.

(2)

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(b) Explain how El Niño-Southern Oscillation (ENSO) cycles contribute to drought risk.

(4)

(c) Explain why community preparedness for tectonic hazards is better in some places than others.

(6)

(Total for Question 1 = 15 marks)

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2 Study Figure 2 in the Resource Booklet.

(a) (i) Define the term 'greenhouse gas'.

(1)

(ii) Describe the trends in China's methane emissions.

(2)

(iii) Suggest **one** reason why China's carbon dioxide emissions per person increased between 1990 and 2018.

(2)

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(b) Explain how these **two** physical feedback mechanisms could lead to a climate change tipping point.

(4)

Ice albedo feedback

Ocean carbon sinks

(c) Explain why groups and organisations may have different attitudes to the threat of global warming.

(6)

(Total for Question 2 = 15 marks)

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3 Study Figure 3 in the Resource Booklet.

(a) (i) Identify which year the highest number of Chinese provinces opened Free Trade Zones.

(1)

(ii) Suggest **one** reason for the distribution of Free Trade Zones opened in 2015.

(2)

(iii) Explain **one** environmental impact, for China, of TNCs outsourcing production to Free Trade Zones.

(3)

(b) Explain **one** way consumers in the developed world have benefitted from globalisation.

(3)

(c) Explain how the movement of the global economic centre of gravity to Asia has benefitted the people living there.

(6)

(Total for Question 3 = 15 marks)

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4 Study Figure 4 in the Resource Booklet.

(a) (i) Name the global region projected to experience the largest increase in population by 2100.

(1)

(ii) Describe the population trend for Asia between 1950 and 2100.

(2)

(iii) Suggest **one** reason for the population projection by 2100 for:

(4)

Europe

Africa

(b) Explain **one** way that an ageing population can impact healthcare provision.

(2)

(c) Explain why there is disagreement about the relationship between population and resources.

(6)

(Total for Question 4 = 15 marks)

TOTAL FOR SECTION A = 60 MARKS

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SECTION B

Answer ONE question in this section – EITHER Question 5 OR Question 6.

Use the evidence provided in the Resource Booklet, your own ideas and examples

If you answer Question 5 put a cross in the box ☒ .

5 Study Figure 5 in the Resource Booklet.

(a) Explain how Figure 5 helps us understand the causes of long-term natural climate change.

(10)

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(b) Assess the extent to which sea level rise is the most significant risk from global warming threatening communities.

(20)

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(Total for Question 5 = 30 marks)

Do not answer Question 6 if you have answered Question 5.

If you answer Question 6 put a cross in the box ☒ .

6 Study Figure 6 in the Resource Booklet

(a) Suggest reasons for the pattern of the KOF Globalisation Index scores shown.

(10)

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(b) Assess the extent to which the growth of the internet is the most significant contributor to recent globalisation.

(20)

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(Total for Question 6 = 30 marks)

TOTAL FOR SECTION B = 30 MARKS
TOTAL FOR PAPER = 90 MARKS

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GradeMax

Pearson Edexcel International Advanced Level

Time 1 hour 45 minutes

Paper reference **WGE01/01**

Geography

International Advanced Subsidiary
PAPER 1: Global Challenges

Resource Booklet

Do not return this Booklet with the question paper.

Turn over ▶

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SECTION A

The following resource relates to Question 1.

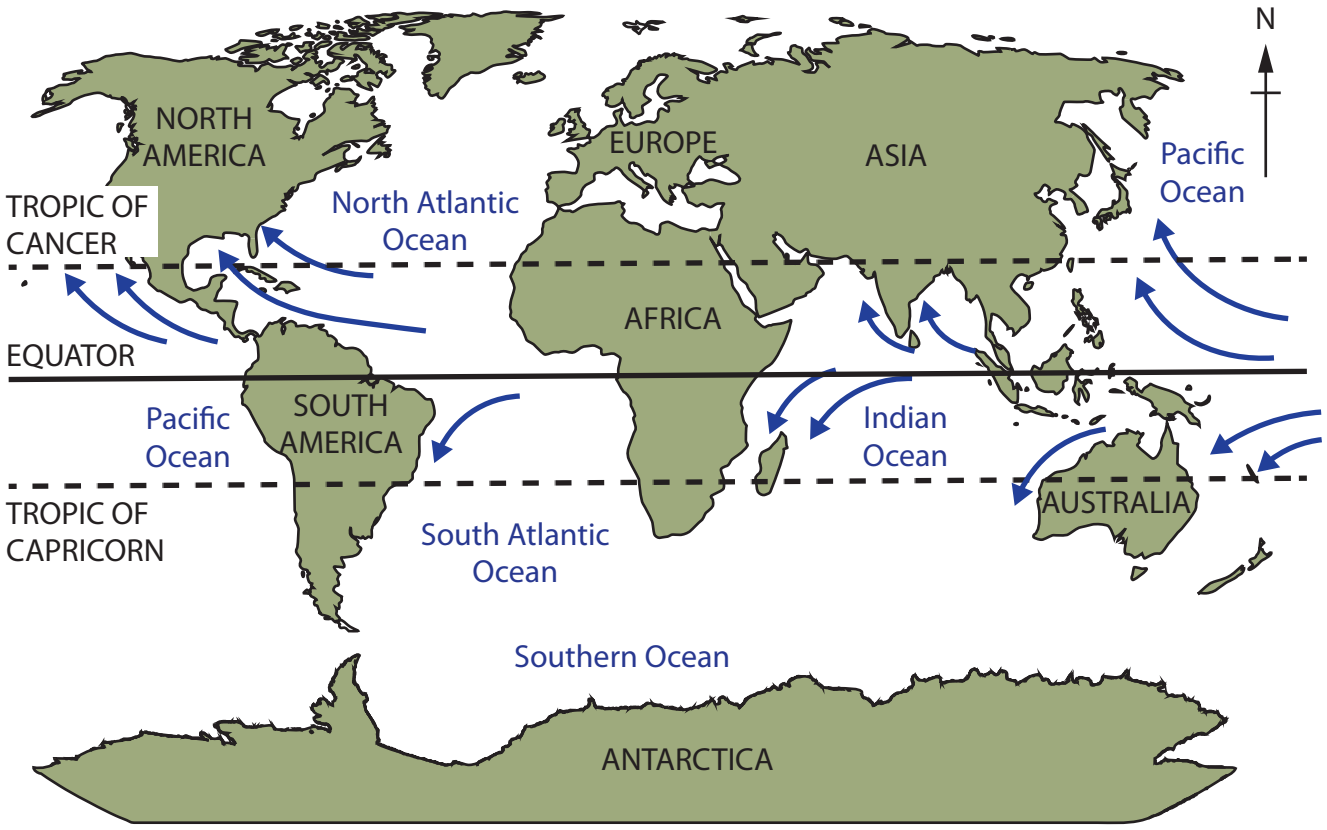


Figure 1

The distribution of tropical cyclone tracks

The following resource relates to Question 2.

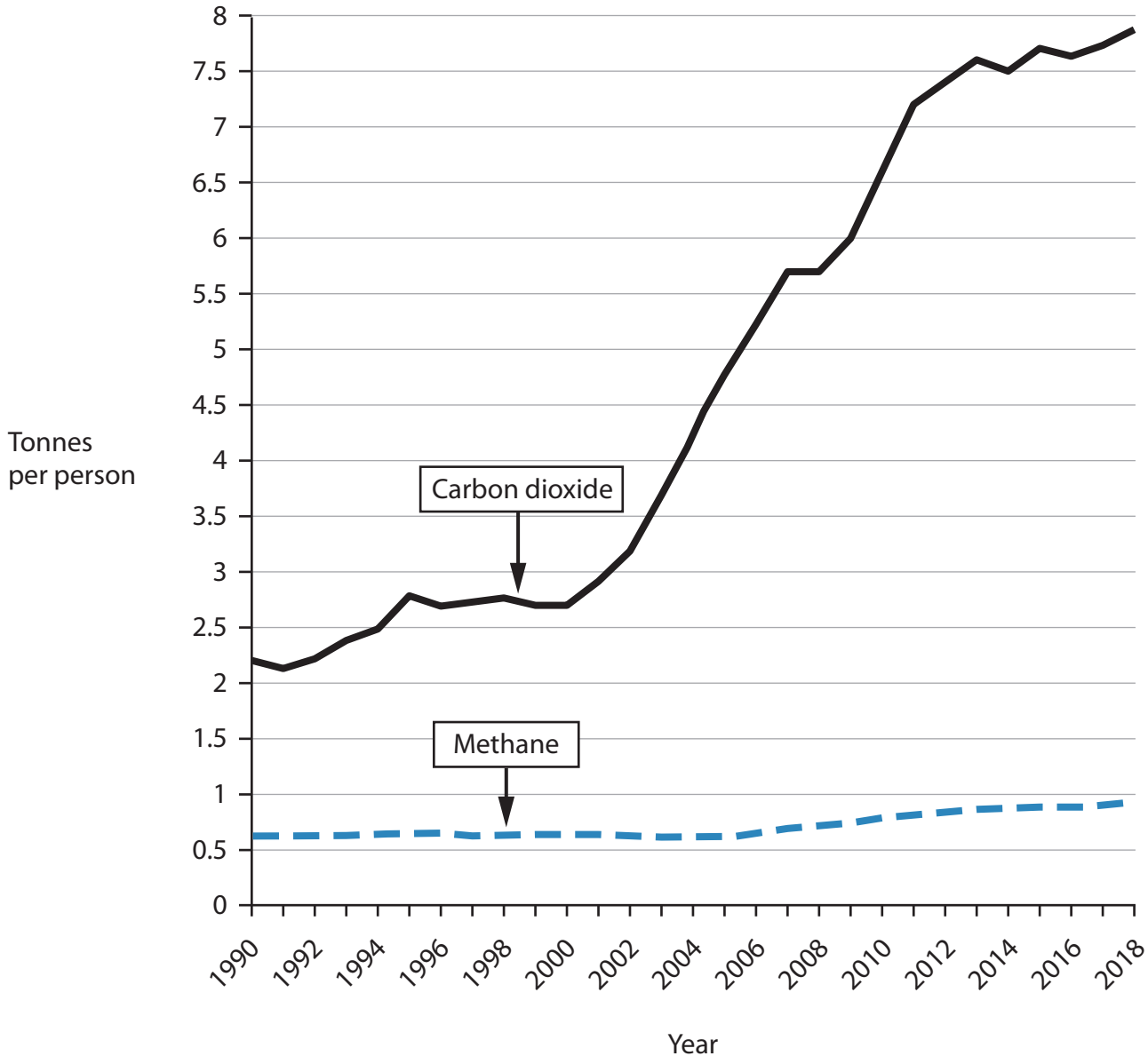
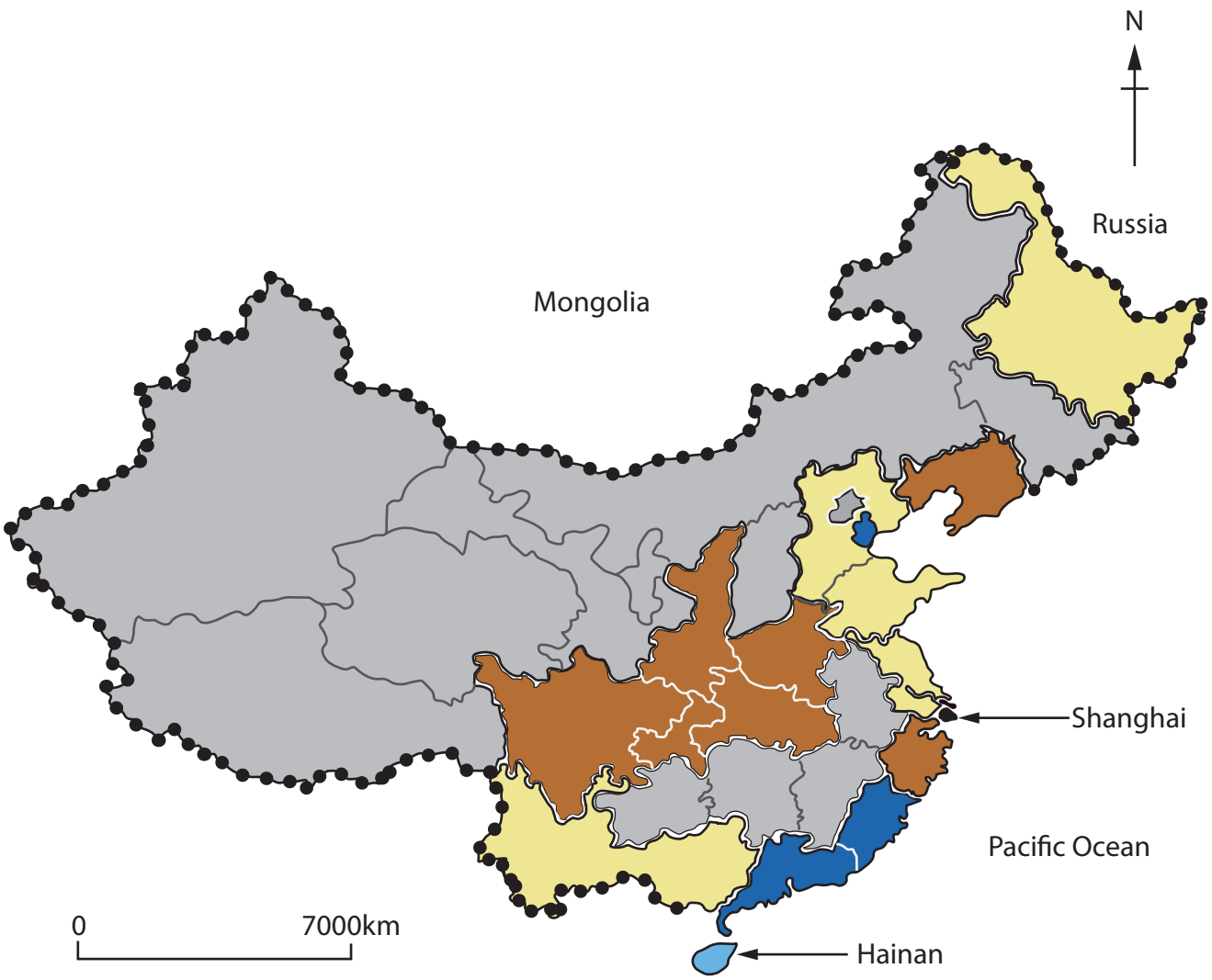


Figure 2

China's carbon dioxide and methane emissions per person, 1990 to 2018

The following resource relates to Question 3.



Key: The year Free Trade Zones opened in Chinese Provinces

Before 2014 | 2015 | 2016

2018 | 2019 | no Free Trade Zones

International border

A Free Trade Zone is a type of special economic zone.

Figure 3

Map showing the expansion of Free Trade Zones in China

The following resource relates to Question 4.

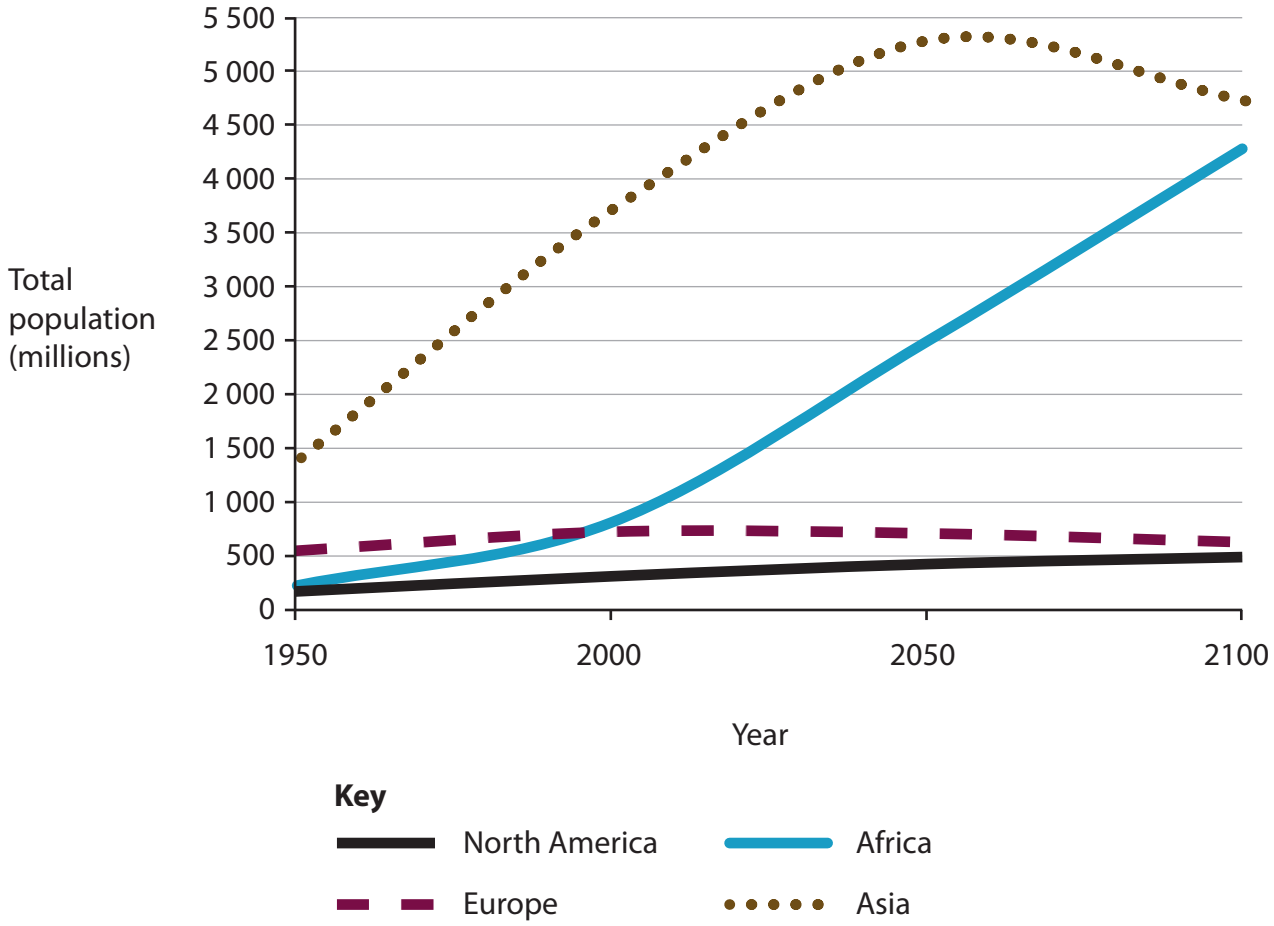
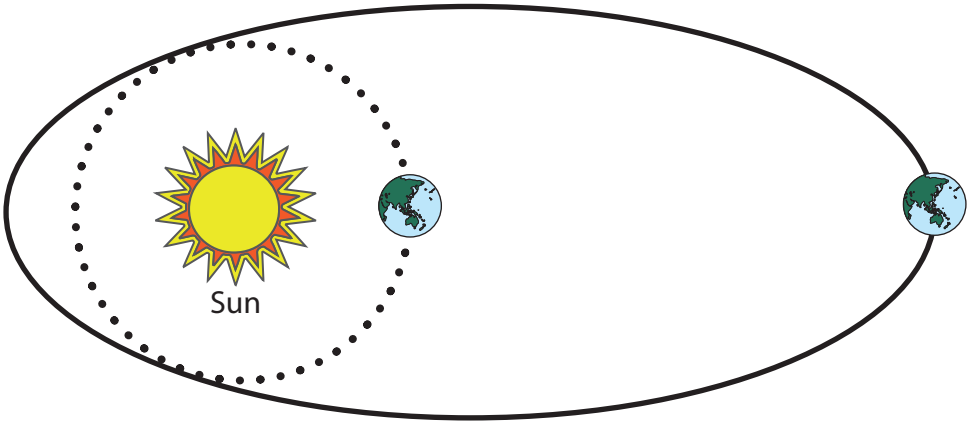


Figure 4

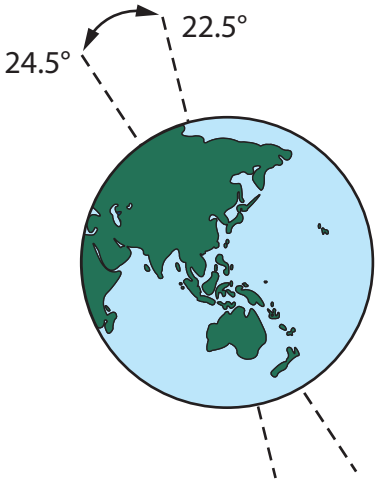
Actual and projected population for four global regions, 1950 to 2100

SECTION B

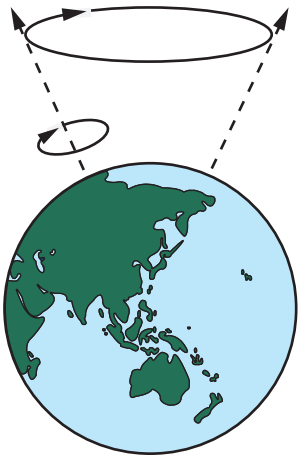
The following resource relates to Question 5.



Orbital eccentricity – 100,000 years



Axial tilt – 41,000 years

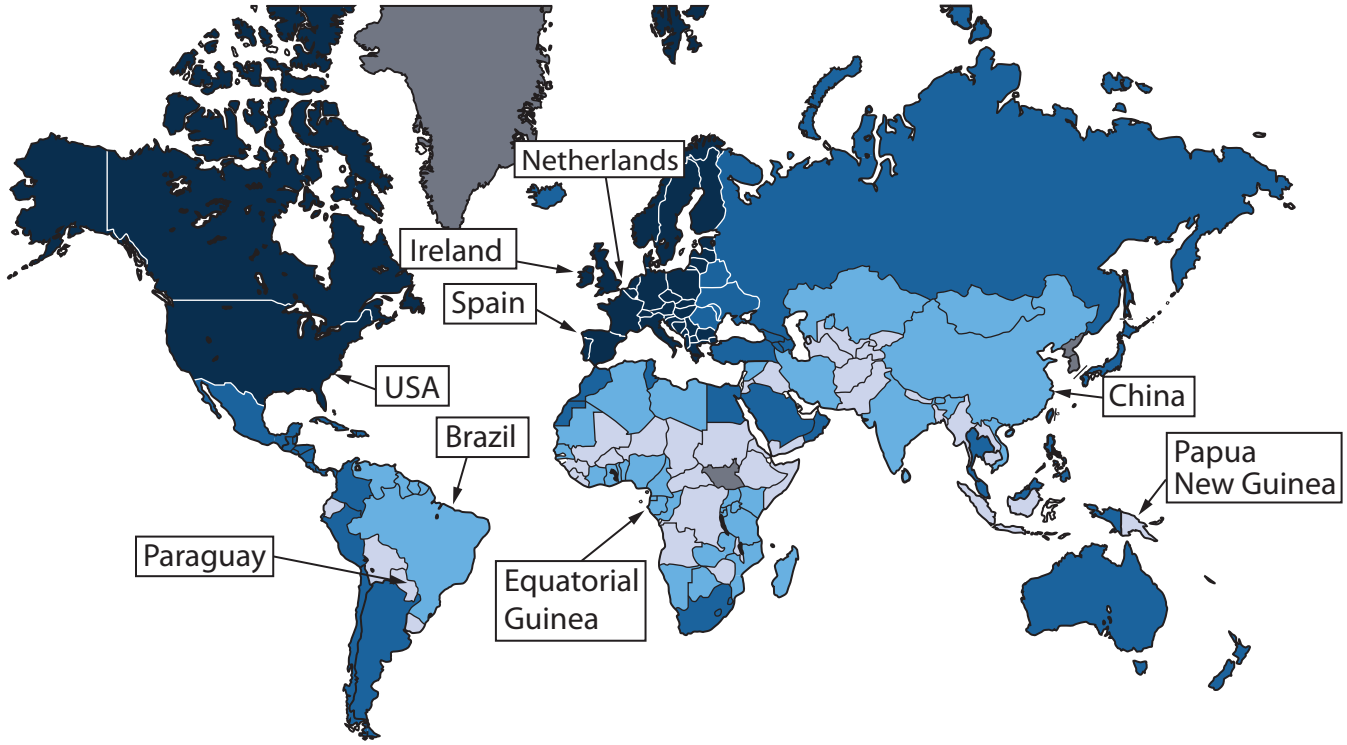


Axial precession – 26,000 years

Figure 5

Milankovitch cycles

The following resource relates to Question 6.



Key: KOF Globalisation Index score

81 and above
61–80
41–60
0–40
no data

Figure 6

KOF Globalisation Index in 2017

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Acknowledgements

Pearson Education Ltd. gratefully acknowledges all following sources used in preparation of this paper:

Source 1 adapted from: https://courses.lumenlearning.com/atd-herkimer-worldgeography/chapter/5-5-tropical-cyclones-hurricanes/

Source 2 adapted from: https://climatechange.lta.org/wp-content/uploads/cct/2015/02/EPA-climate-forcing-2014.pdf

Source 3 adapted from: https://www.china-briefing.com/news/china-free-trade-zones-six-provinces/

Source 4 adapted from: https://ourworldindata.org/future-population-growth#all-charts-preview

Source 5 adapted from: Why Milankovitch (Orbital) Cycles Can't Explain Earth's Current Warming – Climate Change: Vital Signs of the Planet (nasa.gov)

Source 6 adapted from: Dreher, Axel & Gaston, Noel & Martens, Pim & Boxem, Lotte. (2009). Measuring globalization - opening the black box. A critical analysis of globalization indices. Noel Gaston. 1.