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)

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(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)

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

(6)

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(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)

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

(2)

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(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

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Ocean carbon sinks

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

(6)

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(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)

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

(2)

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

(3)

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

(3)

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

(6)

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(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)

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

(2)

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

(4)

Europe

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Africa

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

(2)

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

(6)

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(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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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.

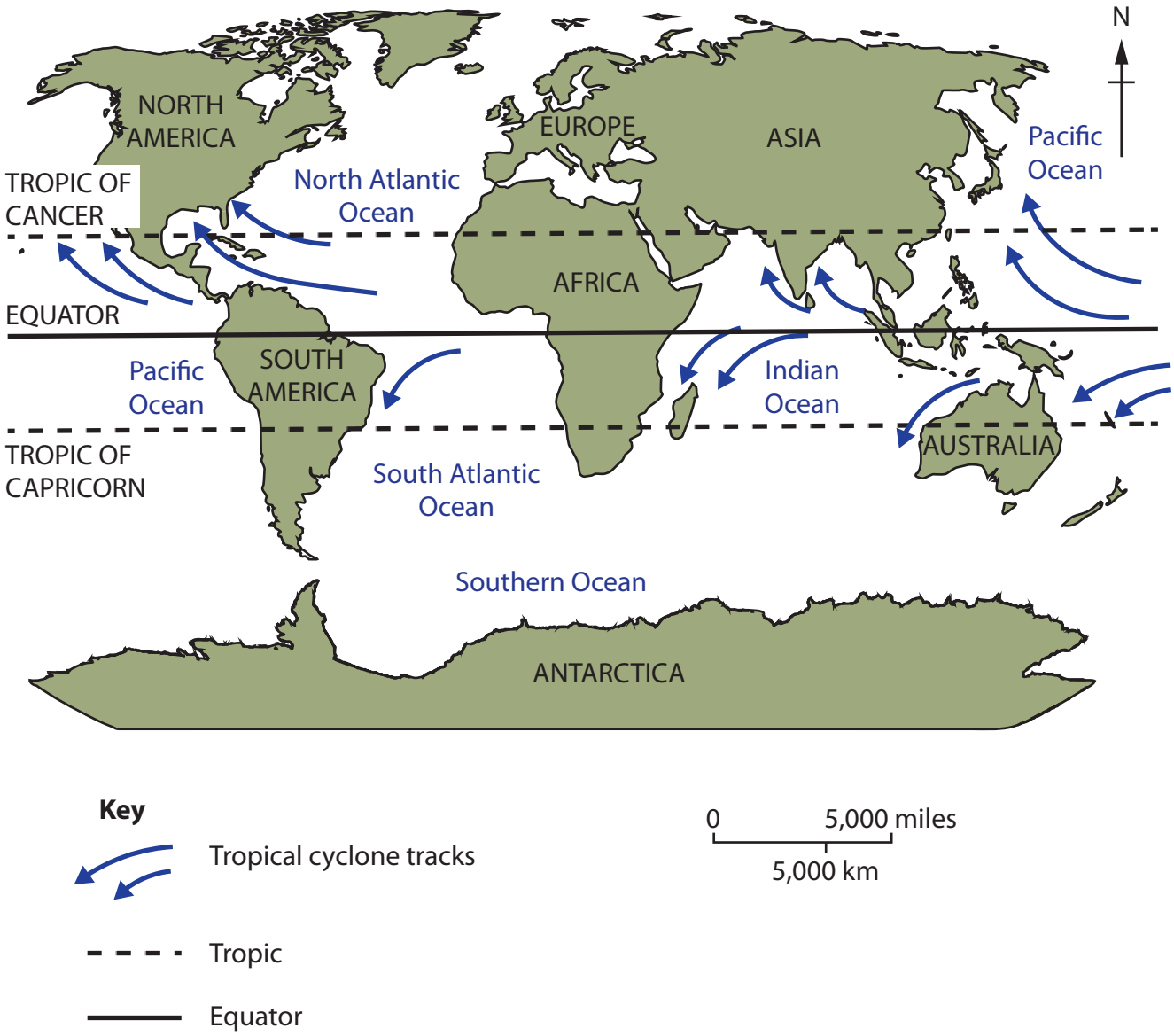


Figure 1

The distribution of tropical cyclone tracks

The following resource relates to Question 2.

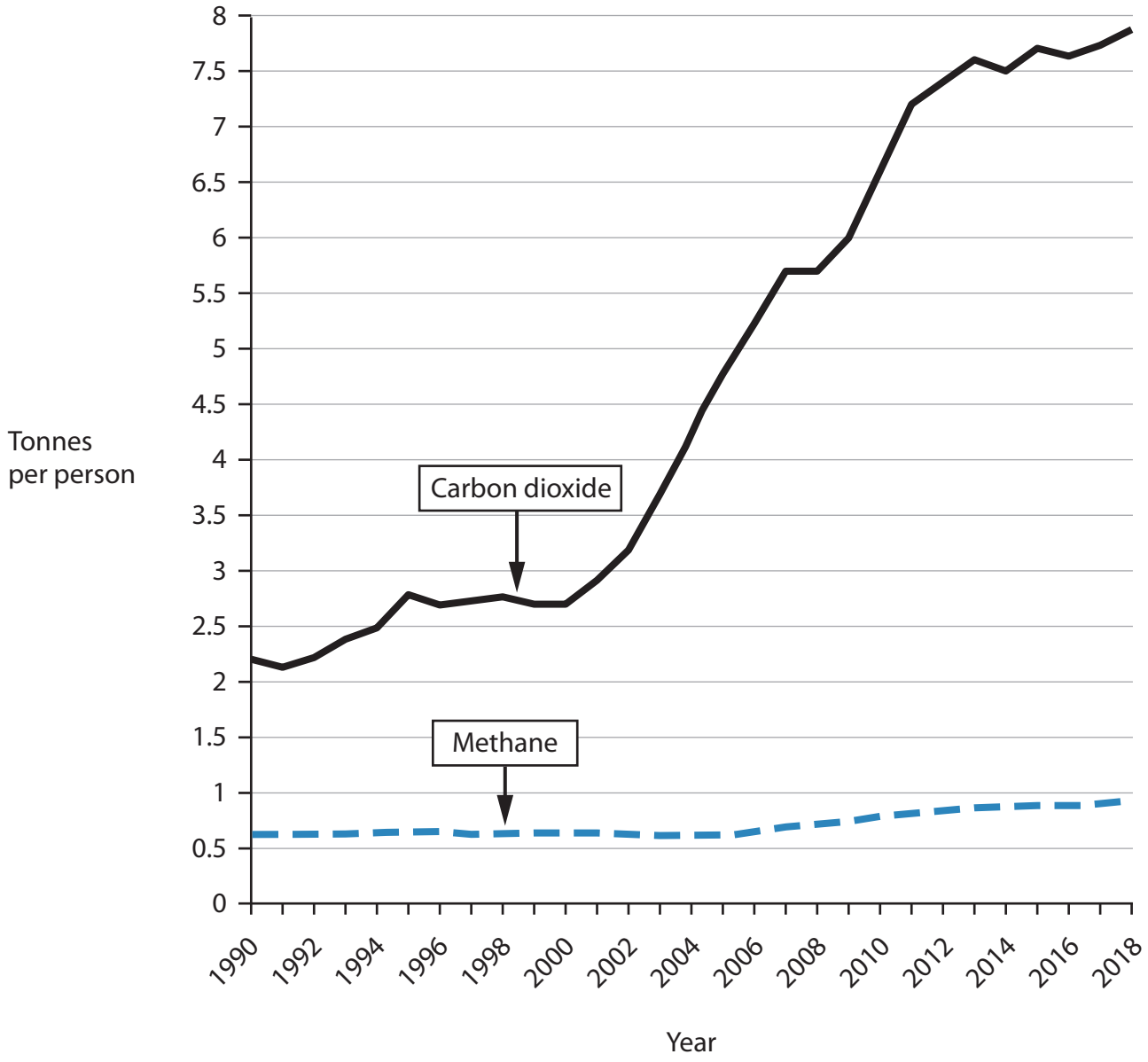
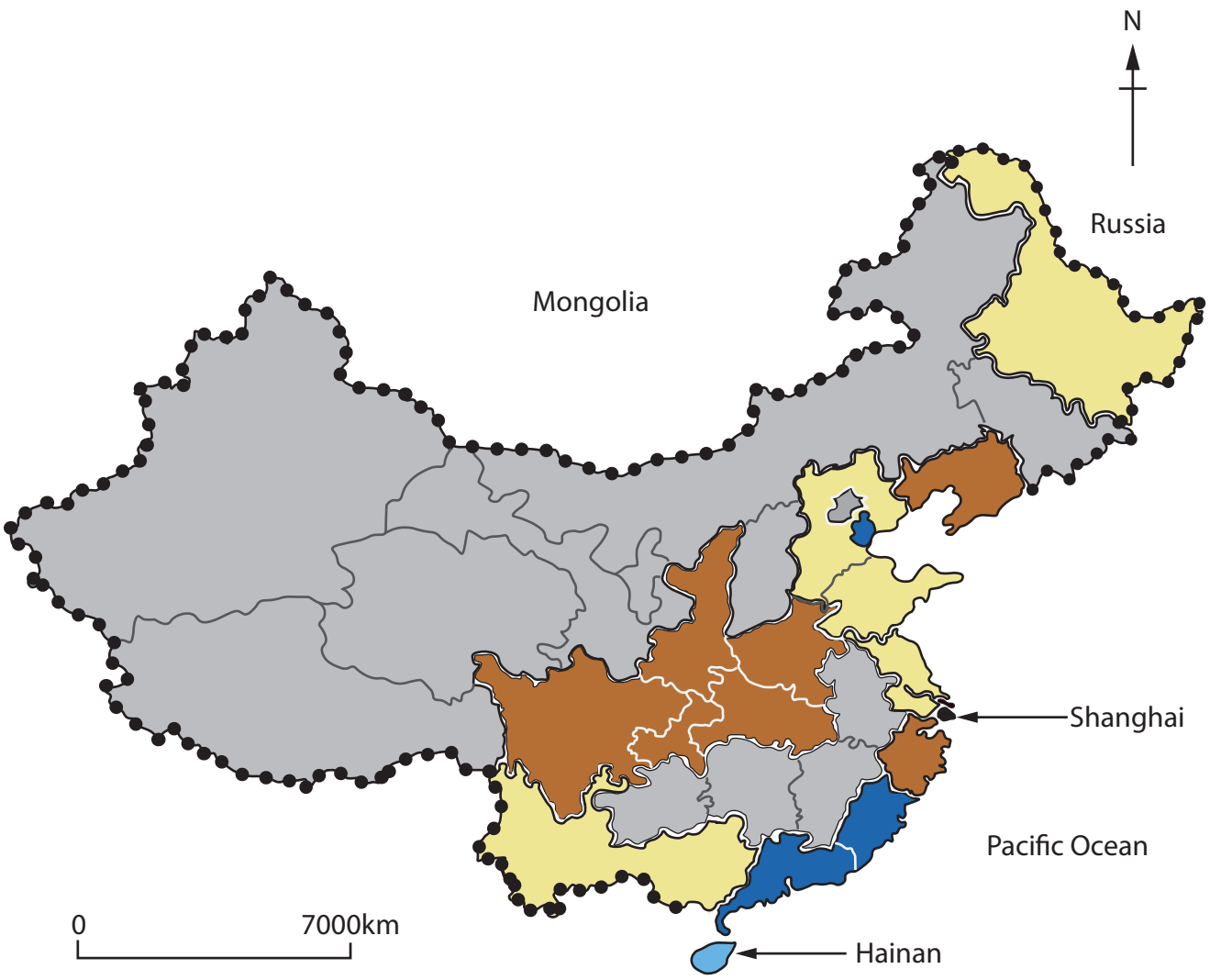


Figure 2

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.

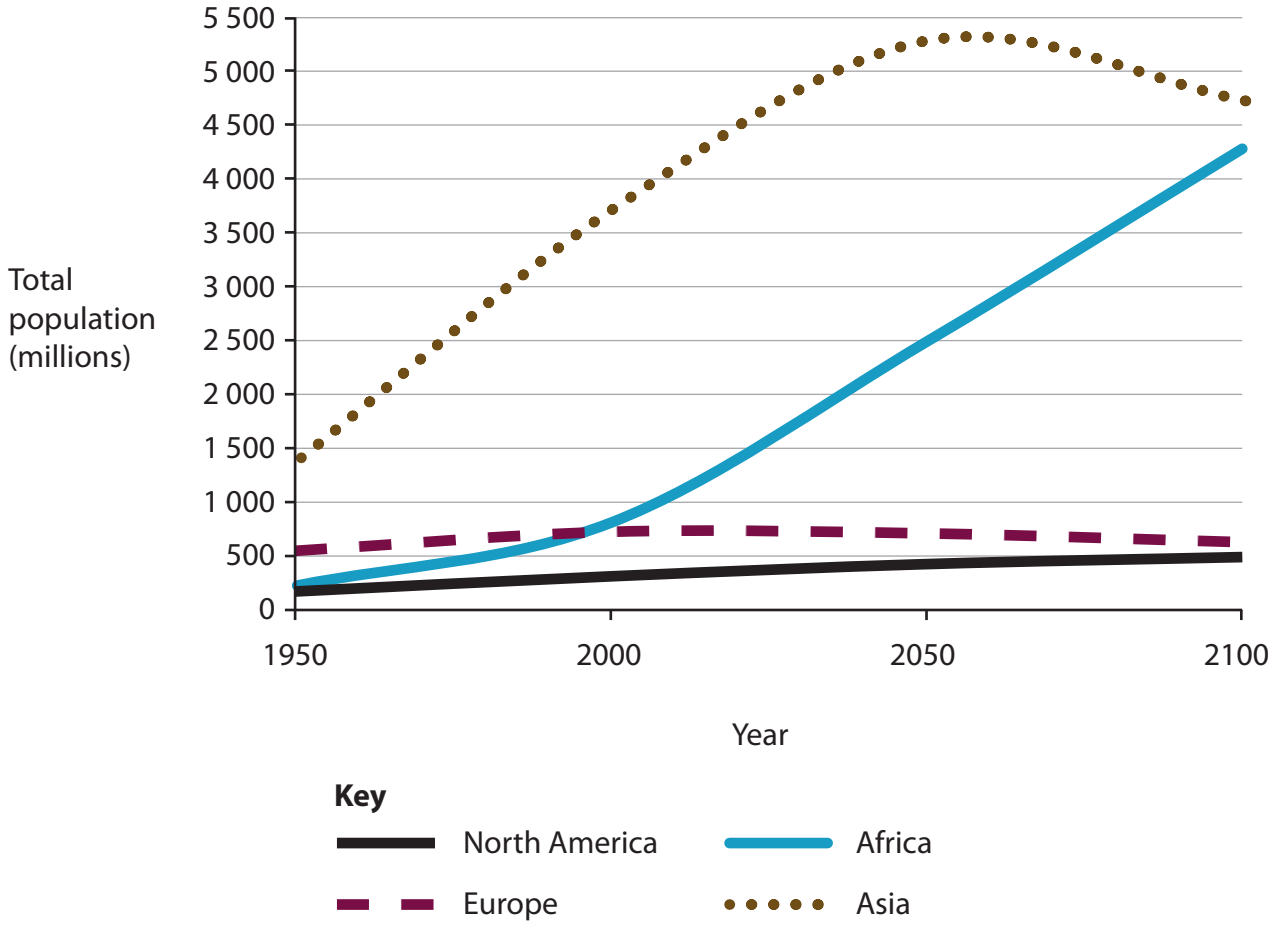
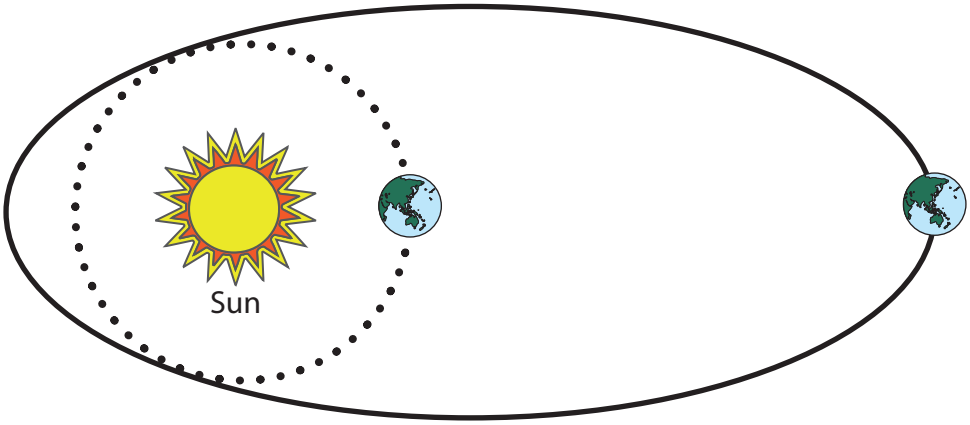


Figure 4

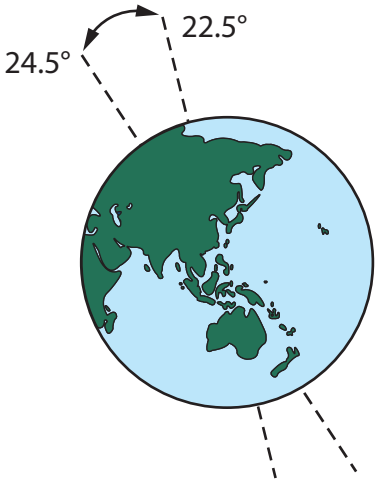
Actual and projected population for four global regions, 1950 to 2100

SECTION B

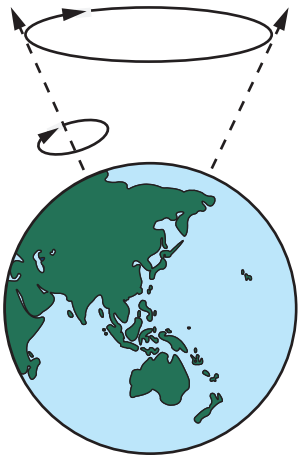
The following resource relates to Question 5.



Orbital eccentricity – 100,000 years



Axial tilt – 41,000 years

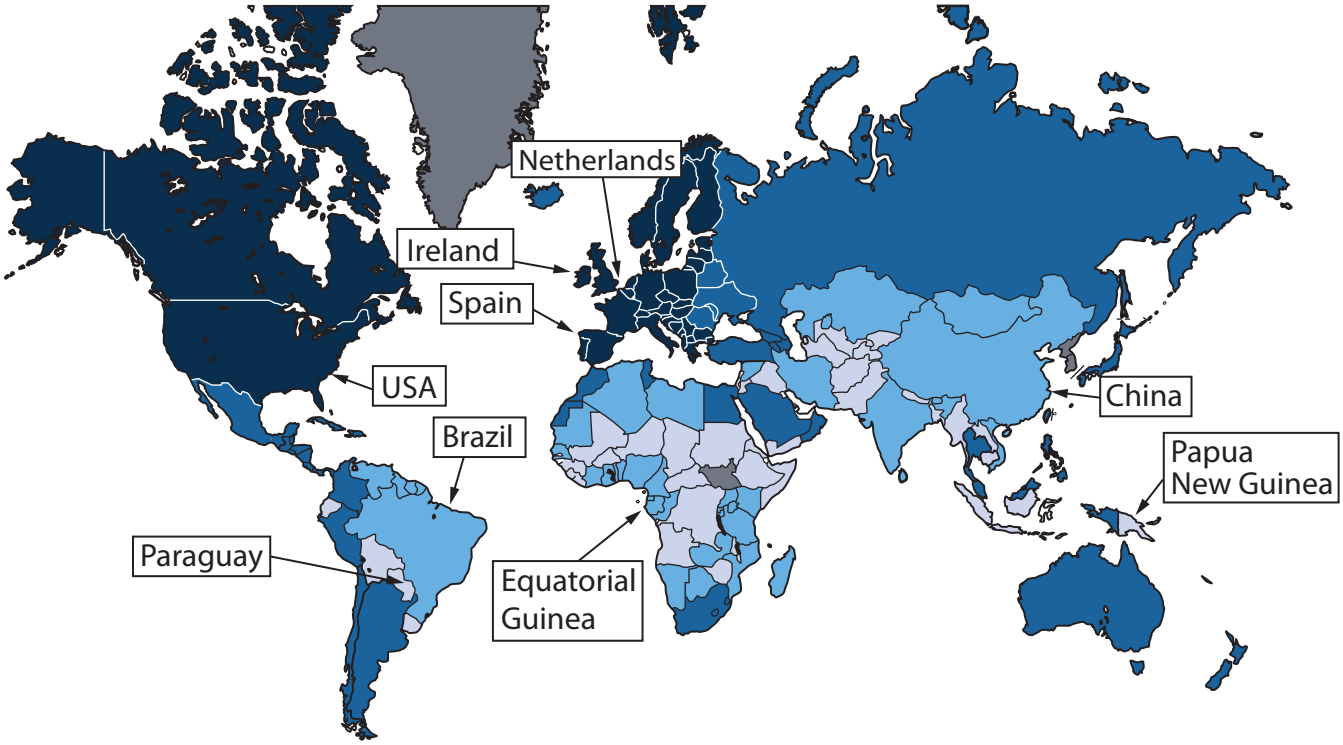


Axial precession – 26,000 years

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.