

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

Pearson Edexcel International Advanced Level

Monday 8 May 2023

Afternoon (Time: 1 hour 45 minutes)

Paper
reference

WGE01/01

Geography

International Advanced Subsidiary

UNIT 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 in this section. Write your answers in the spaces provided.

Some questions must be answered with a cross ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 (a) Study Figure 1 in the Resource Booklet.

(i) Define the term 'hazard hotspot'.

(1)

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(ii) Explain **one** reason why the Philippines is affected by tropical cyclones.

(2)

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(iii) Suggest **one** reason why the Philippines experiences high economic losses from volcanic eruptions.

(2)

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(b) Explain why earthquakes occur at convergent plate boundaries.

(4)

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(c) Explain why regional droughts can have unusually large human and economic impacts.

(6)

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(Total for Question 1 = 15 marks)



2 Study Figure 2 in the Resource Booklet.

(a) (i) What is the projected global surface temperature for the high growth emission projection by 2100? (1)

- A 1.8 degrees
- B 3.6 degrees
- C 4.0 degrees
- D 2.8 degrees

(ii) Describe the trends in global surface warming for the medium emission projection from 2000 to 2100. (2)

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(iii) Suggest **one** reason why there are different temperature projections for 2100. (2)

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3 Study Figure 3 in the Resource Booklet.

(a) (i) Describe the distribution of global submarine fibre optic cables.

(3)

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(ii) Suggest **one** way fibre optic cables have contributed to time-space compression.

(2)

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4 (a) Study Figure 4 in the Resource Booklet.

(i) Which continent has the highest percentage of working age population? (1)

- A Europe
- B North America
- C Africa
- D Oceania

(ii) Explain **two** challenges for countries that have an ageing population. (4)

1

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2

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(b) Explain the differences between the theories of Malthus and Boserup. (4)

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P 7 2 5 7 6 A 0 1 1 2 0

(b) To what extent can preparation and prediction reduce the impacts of natural disasters?

(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 distributions of international migrants shown.

(10)

Area with horizontal dotted lines for writing the answer to Question 6(a).

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(b) Assess the extent to which national governments are the most important players in promoting 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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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.

| Natural hazard type | Number of disasters 2010–2020 | Total number of people affected 2010–2020 |
|---------------------------------|--|--|
| Drought | 2 | 197,687 |
| Earthquake | 17 | 4,347,369 |
| Landslide | 6 | 1802 |
| Flood | 52 | 19,151,217 |
| Volcanic eruption | 6 | 931,495 |
| Tropical cyclones and storms | 87 | 80,489,541 |

Figure 1

Natural disasters in the Philippines, 2010 to 2020



The following resource relates to Question 2.

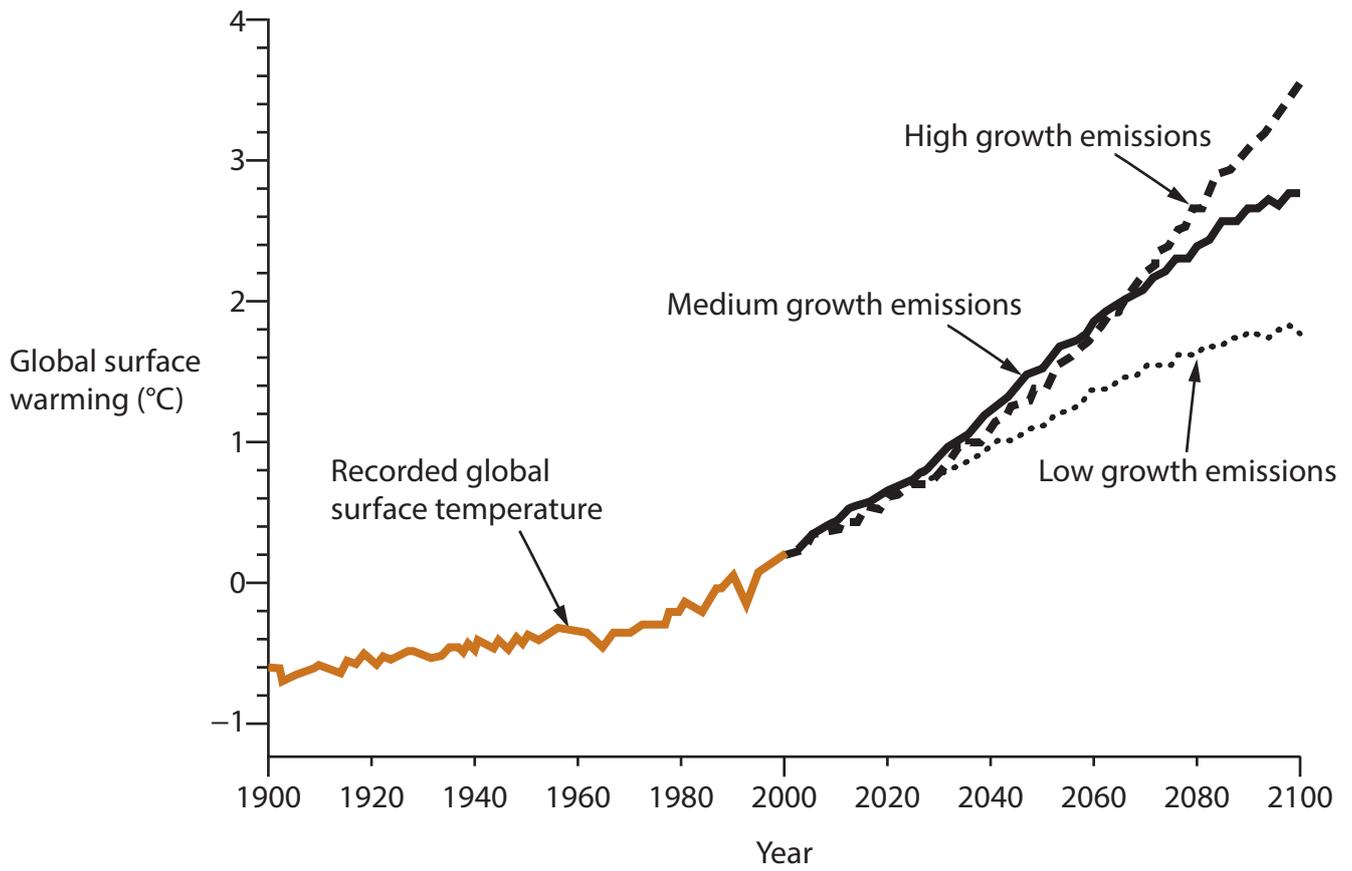
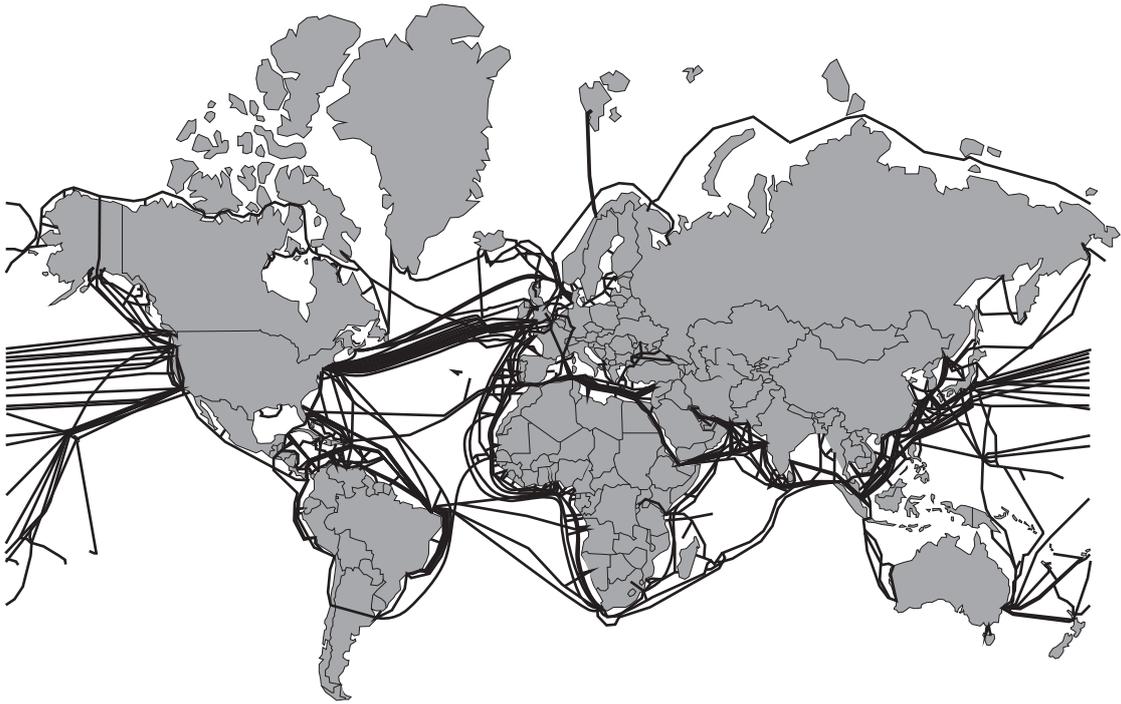


Figure 2

Recorded and projected global temperature changes, 1900 to 2100

The following resource relates to Question 3.



Key

———— Fibre optic cable

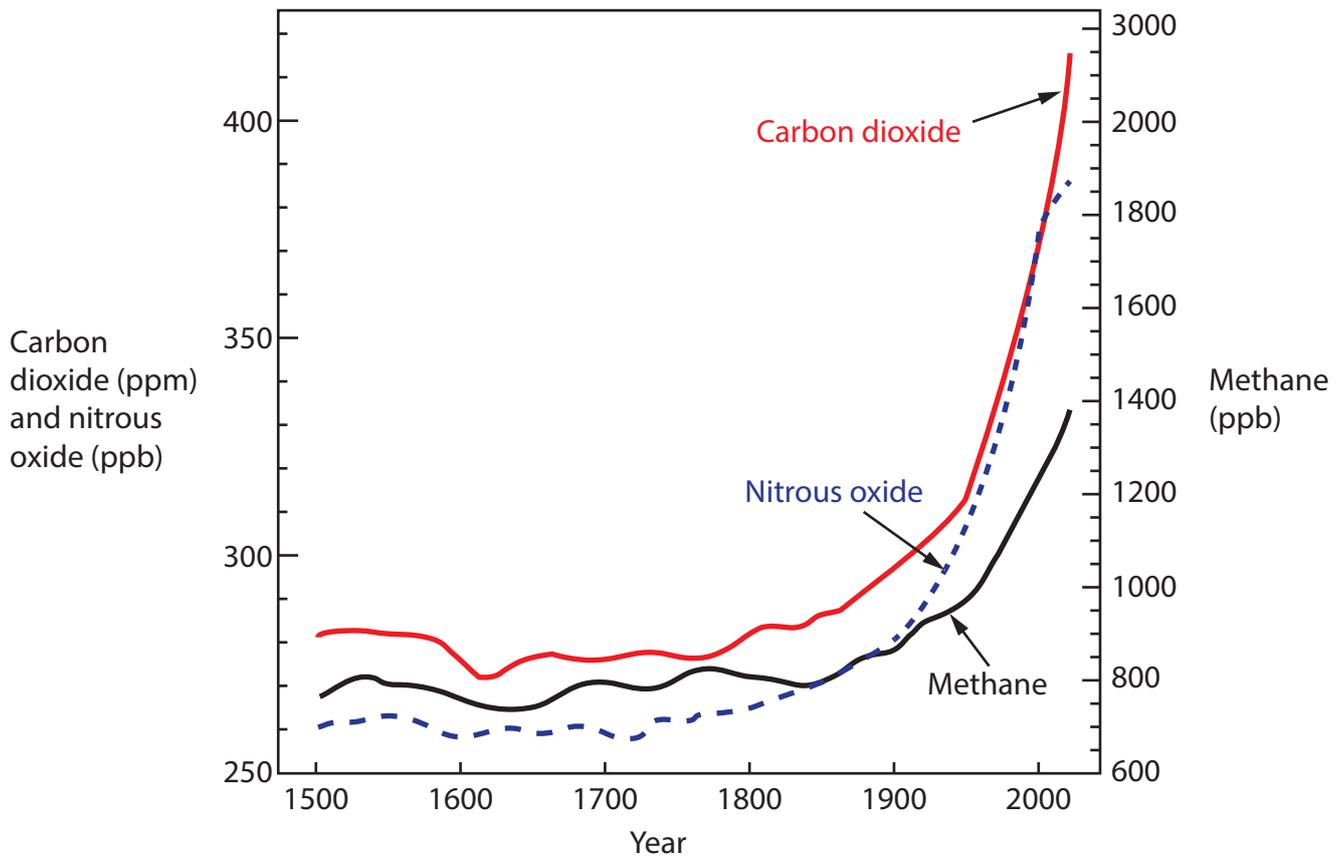
Figure 3

Global distribution of submarine fibre optic cables



SECTION B

The following resource relates to Question 5.



Key
ppm = parts per million
ppb = parts per billion

Figure 5

Changes in atmospheric greenhouse gas concentration, 1500 to 2020



The following resource relates to Question 6.

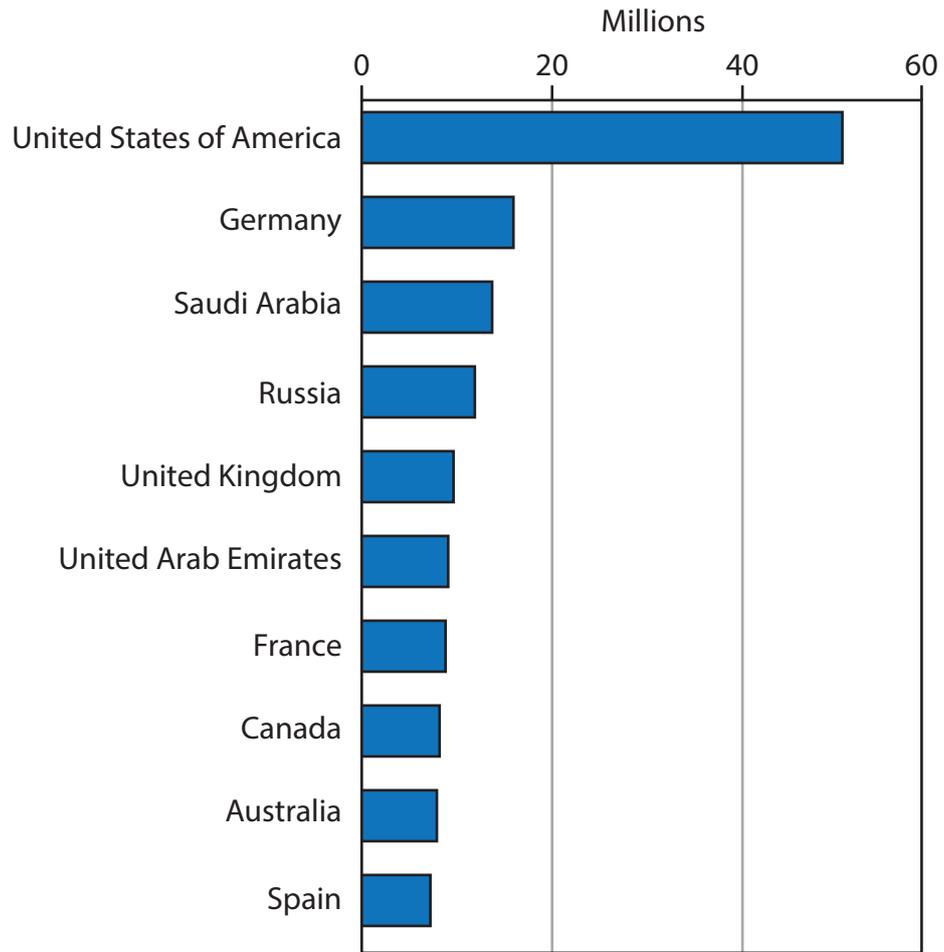


Figure 6

The top 10 host countries for international migrants in 2020 (millions)

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Acknowledgements

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

Figure 2 adapted from: https://www.researchgate.net/figure/Global-temperature-projections-to-2100-Source-NASA-Earth-Observatory-based-on-IPCC-AR4_fig3_305904120

Figure 3 adapted from: <https://cordcutting.com/wp-content/uploads/2020/08/fiber-14-1-1.png>

Figure 4 adapted from: <https://data.worldbank.org/indicator/SP.POP.DPND?view=map>

Figure 5 adapted from: <https://ourworldindata.org/century-disaster-deaths>

<https://ourworldindata.org/atmospheric-concentrations>

<https://climate.nasa.gov/vital-signs/carbon-dioxide/>

Figure 6 adapted from: <https://publications.iom.int/books/world-migration-report-2022>

