

Paper Reference 4GE1/02
Pearson Edexcel
International GCSE (9–1)

Total Marks

Geography
PAPER 2: Human geography

Time: 1 hour 45 minutes

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

YOU MUST HAVE

Calculator

YOU WILL BE GIVEN

Resource Booklet

INSTRUCTIONS

In Section A answer ONE question from Questions 1, 2 AND 3

In Section B answer ONE question from Questions 4, 5 AND 6

In Section C answer ONE question from Questions 7, 8 AND 9

Answer the questions in the spaces provided in this Question Paper – 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.

Turn over

INFORMATION

The total mark for this paper is 72

**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.

SECTION A

Answer ONE question from this section.

Some questions are multiple choice. Write the letter(s) of your chosen answer(s) in the box(es) provided.

If you answer Question 1 put a cross in this box

☐

Turn over

1. Economic activity and energy

(a) (i) Identify ONE advantage of using geothermal energy as a source of energy.

A It uses the power of the sun.

B It uses the power of the wind.

C It is a type of non–renewable energy.

D It is a type of renewable energy.

Answer

(1 mark)

(ii) Define the term RENEWABLE ENERGY.

(1 mark)

(continued on the next page)

Turn over

1. continued.

(b) Identify ONE way to make transport more sustainable.

A increasing the use of powerful petrol engines.

B increasing air travel routes.

C increasing the use of electric battery technology.

D increasing the size of motorways.

Answer

(1 mark)

(continued on the next page)

Turn over

1. continued.

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

**Suggest ONE reason why the activity
shown might be considered
informal employment.**

(2 marks)

**(ii) State ONE advantage of informal
employment.**

(1 mark)

(continued on the next page)

Turn over

1. continued.

(d) Explain TWO factors that affect global energy demand.

(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

1. continued.

(e) Study Figure 1b in the Resource Booklet.

**Explain the relationship shown between
population growth and food supply.**

(3 marks)

(continued on the next page)

Turn over

1. continued.

(f) Explain TWO factors that affect the location of quaternary sector employment.

(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

1. continued.

(g) Study Figure 1c in the Resource Booklet.

Analyse the reasons for the changes in the percentage of people employed in the secondary sector.

(8 marks)

Answer lines continue on the next two pages.

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Turn over

1. (g) continued.

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1. (g) continued.

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(Total for Question 1 = 25 marks)

Turn over

If you answer Question 2 put a cross in this box

☐

2. Rural environments

(a) (i) Identify ONE characteristic associated with a tropical forest.

A arid conditions

B low temperature

C high humidity

D strong winds

Answer

(1 mark)

(ii) Define the term BIOME.

(1 mark)

(continued on the next page)

Turn over

2. continued.

(b) Identify the meaning of the term
ORGANIC FARMING.

A farming that only produces genetically modified crops.

B farming that uses chemical fertilisers.

C farming that does not require irrigation.

D farming that does not use chemical fertilisers.

Answer

(1 mark)

(continued on the next page)

Turn over

2. continued.

(c) Study Figure 2a in the Resource Booklet.

**Suggest how this forest ecosystem might
provide goods for people.**

(2 marks)

**(d) State ONE advantage of using genetically
modified (GM) crops.**

(1 mark)

(continued on the next page)

Turn over

2. continued.

**(e) For people living in a developed country,
explain TWO strategies used to make rural life
more sustainable.**

(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

2. continued.

(f) Study Figure 2b in the Resource Booklet.

Suggest ONE reason for the trends shown.

(3 marks)

(continued on the next page)

2. continued.

(g) Explain how governments and NGOs manage challenges in rural environments in developing or emerging countries.

(4 marks)

Governments

NGOs (Non–governmental organisations)

(continued on the next page)

Turn over

2. continued.

(h) Study Figure 2c in the Resource Booklet.

**Analyse the factors that can lead to rural
changes in developing or emerging countries.**

(8 marks)

Answer lines continue on the next two pages.

2. (h) continued.

[illegible]

Turn over

2. (h) continued.

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(Total for Question 2 = 25 marks)

Turn over

If you answer Question 3 put a cross in this box

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3. Urban environments

(a) (i) Identify ONE advantage of building on a brownfield site.

A land and buildings need to be cleared first.

B reduces loss of countryside.

C may need to remove contaminated material.

D involves building on the greenbelt.

Answer

(1 mark)

(ii) State ONE problem associated with rapid urbanisation.

(1 mark)

(continued on the next page)

Turn over

3. continued.

(b) Identify ONE feature often found in the rural–urban fringe.

A business park

B high street shops

C bus station

D skyscraper buildings

Answer

(1 mark)

(continued on the next page)

Turn over

3. continued.

(c) Study Figure 3a in the Resource Booklet.

Suggest ONE factor that may have affected the decision to locate the factory in this area.

(2 marks)

(d) Define the term MEGACITY.

(1 mark)

(continued on the next page)

Turn over

3. continued.

(e) Explain TWO factors that have led to suburbanisation.

(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

3. continued.

(f) Study Figure 3b in the Resource Booklet.

Suggest ONE reason for the trends shown.

(3 marks)

(continued on the next page)

Turn over

3. continued.

(g) Explain TWO strategies used to manage challenges in squatter settlements.

(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

3. continued.

(h) Study Figure 3c in the Resource Booklet.

**Analyse the environmental challenges facing
urban areas in developed countries.**

(8 marks)

Answer lines continue on the next two pages.

Turn over

3. (h) continued.

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3. (h) continued.

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(Total for Question 3 = 25 marks)

TOTAL FOR SECTION A = 25 MARKS

Turn over

SECTION B**Geographical enquiry**

Answer ONE question only from this section.

Some questions are multiple choice. Write the letter(s) of your chosen answer(s) in the box(es) provided.

If you answer Question 4 put a cross in this box

☐

4. Investigating economic activity and energy

Study Figures 4a and 4b in the Resource Booklet. These show extracts from a student's data collection and presentation methods.

The aim of the student's investigation was to understand people's attitudes to making their homes more energy efficient in Vancouver, Canada.

The student carried out a questionnaire, took photographs of energy efficiency measures, and used secondary data about energy consumption in homes in Canada.

(a) Identify ONE question in Figure 4a that would produce qualitative data.

(1 mark)

(continued on the next page)

Turn over

4. continued.

(b) Identify ONE advantage of the presentation type shown in Figure 4b.

(1 mark)

(c) Explain ONE type of sampling that could have been used in this investigation.

(2 marks)

(continued on the next page)

Turn over

4. continued.

(d) Study Figures 4a and 4b in the Resource Booklet.

Evaluate the student's data collection and presentation methods.

(8 marks)

Answer lines continue on the next two pages.

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4. (d) continued.

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4. (d) continued.

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(Total for Question 4 = 12 marks)

Turn over

If you answer Question 5 put a cross in this box

☐

5. Investigating rural environments

**Study Figures 5a and 5b in the Resource Booklet.
These show extracts from a student's data
collection and presentation methods.**

**The aim of the student's investigation was to
understand how local people felt about the impact
of tourists in the Lake District National Park.**

**The student carried out a questionnaire, took
photographs of tourist services, and used
secondary data about visitor numbers to the
national park.**

- (a) Identify ONE question in Figure 5a that would
produce qualitative data.
(1 mark)**

(continued on the next page)

Turn over

5. continued.

(b) Identify ONE advantage of the presentation type shown in Figure 5b.

(1 mark)

(c) Explain ONE type of sampling that could have been used in this investigation.

(2 marks)

(continued on the next page)

Turn over

5. continued.

(d) Study Figures 5a and 5b in the Resource Booklet.

Evaluate the student's data collection and presentation methods.

(8 marks)

Answer lines continue on the next two pages.

[illegible]

Turn over

5. (d) continued.

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Turn over

5. (d) continued.

[illegible]

(Total for Question 5 = 12 marks)

Turn over

If you answer Question 6 put a cross in this box

☐

6. Investigating urban environments

Study Figures 6a and 6b in the Resource Booklet. These show extracts from a student's data collection and presentation methods.

The aim of the student's investigation was to investigate attitudes to an old factory being redeveloped in Manchester, United Kingdom.

The student carried out a questionnaire, took photographs of the factory being redeveloped, and used secondary data about property prices in the area.

- (a) Identify ONE question in Figure 6a that would produce qualitative data.
(1 mark)**

(continued on the next page)

Turn over

6. continued.

(b) Identify ONE advantage of the presentation type shown in Figure 6b.

(1 mark)

(c) Explain ONE type of sampling that could have been used in this investigation.

(2 marks)

(continued on the next page)

6. continued.

(d) Study Figures 6a and 6b in the Resource Booklet. It shows an extract from a student's data collection and presentation methods.

Evaluate the student's data collection and presentation methods.

(8 marks)

Answer lines continue on the next two pages.

6. (d) continued.

[illegible]

Turn over

6. (d) continued.

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(Total for Question 6 = 12 marks)

TOTAL FOR SECTION B = 12 MARKS

Turn over

SECTION C**Global issues**

Answer ONE question only from this section.

Some questions are multiple choice. Write the letter(s) of your chosen answer(s) in the box(es) provided.

If you answer Question 7 put a cross in this box

☐

7. Fragile environments and climate change

- (a) (i) Identify the correct word to complete the sentence below.

Greenhouse gases allow ... radiation through the atmosphere to warm the Earth's surface.

- A nuclear
- B light
- C temperature
- D solar

Answer

(1 mark)

(continued on the next page)

Turn over

7. (a) continued.

(ii) Identify the meaning of the term
MILANKOVITCH CYCLE.

A changes in the shape of the Earth's
orbit

B changes to rainfall patterns

C changes to the carbon cycle

D changes in the composition of the
atmosphere

Answer

(1 mark)

(b) State ONE human cause of climate change.

(1 mark)

(continued on the next page)

Turn over

7. continued.

(c) Study Figure 7a in the Resource Booklet.

**(i) Name TWO countries labelled in Figure 7a
at 'Very High' risk of desertification.**

(2 marks)

1 _____

2 _____

(continued on the next page)

Turn over

7. (c) continued.

(ii) Suggest TWO possible reasons for the distribution of countries at risk of desertification.

(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

7. continued.

(d) Explain TWO strategies for sustainable rainforest management.

(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

7. continued.

(e) Study Figure 7b in the Resource Booklet.

(i) Calculate the range in the number of tropical storms for 2019.

You must show all your workings in the space below.

**Give your answer to one decimal place.
(2 marks)**

(continued on the next page)

Turn over

7. (e) continued.

(ii) Describe ONE difference in the number of tropical storms between 2010 and 2019.
(2 marks)

(continued on the next page)

7. continued.

(f) Study Figure 7c in the Resource Booklet.

Assess the potential impacts of deforestation.

(6 marks)

Answer lines continue on the next page.

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7. (f) continued.

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Turn over

7. continued.

(g) Discuss the view

‘The most significant impact of climate change will be the increased frequency of extreme weather events.’

**Use Figures 7a and 7b from the Resource Booklet, and your own knowledge and understanding to support your answer.
(12 marks)**

Answer lines continue on the next three pages.

7. (g) continued.

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Turn over

7. (g) continued.

[illegible]

Turn over

7. (g) continued.

(Total for Question 7 = 35 marks)

If you answer Question 8 put a cross in this box

☐

8. Globalisation and migration

- (a) (i) Identify the correct word to complete the sentence below:

The ... was established to promote free trade and fair trade between countries.

A International Monetary Fund

B Oxfam

C World Bank

D World Trade Organisation

Answer

(1 mark)

(continued on the next page)

Turn over

8. (a) continued.

(ii) Identify ONE advantage of transnational corporations (TNCs) for host countries.

A exploitation of workers

B infrastructure development

C profits leak out of the country

D environmental damage

Answer

(1 mark)

(continued on the next page)

8. continued.

(b) (i) Define the term **COMMODITY CHAIN**.

(1 mark)

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

Identify the country with the highest and lowest percentage of the population who do NOT use the internet.

(2 marks)

Highest

Lowest

(continued on the next page)

Turn over

8. (b) continued.

(iii) Suggest TWO possible reasons for the pattern shown in Figure 8a.

(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

8. continued.

(c) Explain TWO reasons why trade is important
for the global economy.

(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

8. continued.

(d) Study Figure 8b in the Resource Booklet.

(i) Calculate the range in the number of refugees.

You must show all your workings in the space below.

Give your answer to one decimal place.

(2 marks)

(continued on the next page)

Turn over

8. (d) continued.

(ii) Compare the trends for refugees and internally displaced persons between 2015–2019.

(2 marks)

(continued on the next page)

8. continued.

(e) Study Figure 8c in the Resource Booklet.

Assess strategies for making tourism more sustainable.

(6 marks)

Answer lines continue on the next page.

[illegible]

Turn over

8. (e) continued.

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Turn over

8. continued.

(f) Discuss the view

‘The benefits of globalisation outweigh the drawbacks.’

**Use Figures 8a and 8c from the
Resource Booklet, and your own knowledge
and understanding to support your answer.
(12 marks)**

Answer lines continue on the next three pages.

8. (f) continued.

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Turn over

8. (f) continued.

[illegible]

Turn over

8. (f) continued.

(Total for Question 8 = 35 marks)

If you answer Question 9 put a cross in this box

☐

9. Development and human welfare

(a) (i) Identify the indicator used to calculate the Human Development Index (HDI).

A infant mortality rate

B access to water

C life expectancy

D houses with electricity

Answer

(1 mark)

(continued on the next page)

Turn over

9. (a) continued.

(ii) Identify the correct word to complete the sentence below:

The ... can be used to measure inequality.

A adult literacy rate

B Gini-coefficient

C rate of natural increase

D dependency ratio

Answer

(1 mark)

(continued on the next page)

Turn over

9. continued.

(b) (i) Define the term **DEVELOPMENT GAP**.

(1 mark)

(ii) Study Figure 9a in the Resource Booklet

Identify **TWO** countries labelled in
Figure 9a with a Corruption Perception
Index score between **80–100**.

(2 marks)

1

2

(continued on the next page)

Turn over

9. (b) continued.

(iii) Suggest TWO possible reasons for the pattern shown in Figure 9a.

(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

9. continued.

(c) Explain how **FERTILITY RATES** and **POPULATION STRUCTURES** change as a country becomes more developed.

(4 marks)

Fertility rates

Population structure

(continued on the next page)

Turn over

9. continued.

(d) Study Figure 9b in the Resource Booklet.

(i) Calculate the range in the mortality rates for India between 1990–2018.

You must show all your workings in the space below.

Give your answer to one decimal place.

(2 marks)

(continued on the next page)

Turn over

9. (d) continued.

(ii) Suggest how this trend might compare to a developed country such as Canada.

(2 marks)

(continued on the next page)

9. continued.

(e) Study Figure 9c in the Resource Booklet.

**Assess the different views on the use of
bottom–up projects to improve quality of life.**

(6 marks)

Answer lines continue on the next page.

Turn over

9. (e) continued.

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(continued on the next page)

Turn over

9. continued.

(f) Discuss the view

‘Top–down projects are the most effective for tackling the development gap between countries.’

**Use Figures 9a and 9c from the Resource Booklet, and your own knowledge and understanding to support your answer.
(12 marks)**

Answer lines continue on the next three pages.

9. (f) continued.

[illegible]

Turn over

9. (f) continued.

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Turn over

9. (f) continued.

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(Total for Question 9 = 35 marks)

TOTAL FOR SECTION C = 35 MARKS

TOTAL FOR PAPER = 72 MARKS

END OF PAPER