

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					

Y70861A

YOU MUST HAVE
Calculator

YOU WILL BE GIVEN
Resource Booklet

Turn over

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.

Turn over

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)

(continued on the next page)

Turn over

1. (a) continued.

(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)

(continued on the next page)

Turn over

1. (c) continued.

**(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)

Answer lines continue on the next page.

1

Turn over

1. (d) continued.

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)

**Answer lines continue on the
next page.**

Turn over

1. (e) continued.

(continued on the next page)

Turn over

1. continued.

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

(4 marks)

Answer lines continue on the next page.

1

Turn over

1. (f) continued.

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 four pages.**

Turn over

1. (g) continued.

Turn over

1. (g) continued.

Turn over

1. (g) continued.

Turn over

1. (g) continued.

(Total for Question 1 = 25 marks)

Turn over

22

**If you answer Question 2 put a
cross in this box**

☐

Turn over

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)

(continued on the next page)

Turn over

2. (a) continued.

(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)**

(continued on the next page)

Turn over

2. continued.

**(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)

Answer lines continue on the next page.

1

Turn over

2. (e) continued.

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)

**Answer lines continue on the
next page.**

Turn over

2. (f) continued.

(continued on the next page)

Turn over

2. continued.

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

(4 marks)

Answer lines continue on the next page.

Governments

Turn over

2. (g) continued.

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 four pages.**

Turn over

2. (h) continued.

Turn over

2. (h) continued.

Turn over

2. (h) continued.

Turn over

2. (h) continued.

(Total for Question 2 = 25 marks)

Turn over

39

**If you answer Question 3 put a
cross in this box**

☐

Turn over

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)

(continued on the next page)

Turn over

3. (a) continued.

**(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)**

(continued on the next page)

Turn over

3. continued.

(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)

Answer lines continue on the next page.

1

Turn over

3. (e) continued.

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)

**Answer lines continue on the
next page.**

Turn over

3. (f) continued.

(continued on the next page)

Turn over

3. continued.

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

(4 marks)

Answer lines continue on the next page.

1

Turn over

3. (g) continued.

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 four pages.**

Turn over

3. (h) continued.

Turn over

3. (h) continued.

Turn over

3. (h) continued.

Turn over

3. (h) continued.

(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

☐

Turn over

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.

(continued on the next page)

Turn over

4. continued.

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)

(continued on the next page)

Turn over

4. continued.

**(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 four pages.**

Turn over

4. (d) continued.

Turn over

4. (d) continued.

Turn over

4. (d) continued.

Turn over

4. (d) continued.

(Total for Question 4 = 12 marks)

Turn over

66

**If you answer Question 5 put a
cross in this box**

☐

Turn over

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.

(continued on the next page)

Turn over

5. continued.

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)

(continued on the next page)

Turn over

5. continued.

**(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 four pages.**

Turn over

5. (d) continued.

Turn over

5. (d) continued.

Turn over

5. (d) continued.

Turn over

5. (d) continued.

(Total for Question 5 = 12 marks)

76

**If you answer Question 6 put a
cross in this box**

☐

Turn over

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.

(continued on the next page)

Turn over

6. continued.

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)

(continued on the next page)

Turn over

6. continued.

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

(2 marks)

(continued on the next page)

Turn over

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 four pages.

Turn over

6. (d) continued.

Turn over

6. (d) continued.

Turn over

6. (d) continued.

Turn over

6. (d) continued.

(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

☐

Turn over

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.

Select ONE answer from the options on the next page.

Turn over

7. (a) (i) continued.

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)

(continued on the next page)

Turn over

7. continued.

**(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)

Answer lines continue on the next page.

1

Turn over

7. (c) (ii) continued.

2

(continued on the next page)

Turn over

7. continued.

**(d) Explain TWO strategies
for sustainable rainforest
management.**

(4 marks)

**Answer lines continue on the
next page.**

1

Turn over

7. (d) continued.

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
and on the next page.**

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

Turn over

7. (e) (i) continued.

(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)

Turn over

7. continued.

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

**Assess the potential impacts of
deforestation.**

(6 marks)

**Answer lines continue on the
next two pages.**

Turn over

7. (f) continued.

Turn over

7. (f) continued.

(continued on the next page)

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 are on the next five pages.

Turn over

7. (g) continued.

Turn over

7. (g) continued.

Turn over

7. (g) continued.

Turn over

7. (g) continued.

Turn over

7. (g) continued.

(Total for Question 7 = 35 marks)

Turn over

**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.

Select ONE answer from the options on the next page.

Turn over

8. (a) (i) continued.

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)

Turn over

8. continued.

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

(1 mark)

(continued on the next page)

Turn over

8. (b) continued.

**(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)**

**Answer lines continue on the
next page.**

Highest

Turn over

8. (b) (ii) continued.

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)

Answer lines continue on the next page.

1

Turn over

8. (b) (iii) continued.

2

(continued on the next page)

Turn over

8. continued.

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

(4 marks)

Answer lines continue on the next page.

1

Turn over

8. (c) continued.

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
 and on the next page.**

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

Turn over

8. (d) (i) continued.

(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)

Turn over

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 two pages.**

Turn over

8. (e) continued.

Turn over

8. (e) continued.

(continued on the next page)

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 five pages.**

Turn over

8. (f) continued.

Turn over

8. (f) continued.

Turn over

8. (f) continued.

Turn over

8. (f) continued.

Turn over

8. (f) continued.

(Total for Question 8 = 35 marks)

Turn over

**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.**

**Select ONE answer from the
options on the next page.**

Turn over

9. (a) (ii) continued.

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)

(continued on the next page)

Turn over

9. (b) continued.

(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)

Answer lines continue on the next page.

1

Turn over

9. (b) (iii) continued.

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)

**Answer lines continue on the
next page.**

Fertility rates

Turn over

9. (c) continued.

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
 and on the next page.**

**Give your answer to
one decimal place.**

(2 marks)

Turn over

9. (d) (i) continued.

(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)

Turn over

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 two pages.**

Turn over

9. (e) continued.

Turn over

9. (e) continued.

(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 are on the next five pages.

Turn over

9. (f) continued.

Turn over

9. (f) continued.

Turn over

9. (f) continued.

Turn over

9. (f) continued.

Turn over

9. (f) continued.

(Total for Question 9 = 35 marks)

TOTAL FOR SECTION C = 35 MARKS

TOTAL FOR PAPER = 72 MARKS

END OF PAPER
