

Paper Reference 4GE1/02R

Pearson Edexcel

International GCSE (9–1)

Geography

PAPER 2: Human geography

Total Marks

Friday 9 June 2023 – Morning

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

Diagram Booklet

Turn over

INSTRUCTIONS

In Section A, answer TWO questions 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 or on the separate diagrams – there may be more space than you need.

Calculators may be used.

Where asked you must show all your working with your answer clearly identified at the end of your solution.

Turn over

INFORMATION

The total mark for this paper is 105.

The marks for EACH question are shown in brackets – use this as a guide as to how much time to spend on each question.

There may be spare copies of some diagrams in case you need them.

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 TWO questions from this section.

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

If you answer Question 1 put a cross in this box

☐

1. Economic activity and energy

(a) (i) Identify ONE type of employment associated with the primary sector.

A doctor

B computer engineer

C miner

D teacher

Answer

(1 mark)

(continued on the next page)

Turn over

1. (a) continued.

**(ii) State ONE factor that affects
the location of primary
sector economic activity.**

(1 mark)

(continued on the next page)

1. continued.

(b) Identify a characteristic of informal employment.

A reliable income

B consistent income

C lack of access to a retail park

D lack of unemployment benefits

Answer

(1 mark)

(continued on the next page)

Turn over

1. continued.

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

**Suggest ONE factor that has
affected the location of this
business park.**

(2 marks)

(continued on the next page)

Turn over

1. continued.

(d) Define the term energy gap.

(1 mark)

(continued on the next page)

1. continued.

(e) For a named developing or emerging country, explain TWO ways energy can be managed sustainably.

(4 marks)

Answer lines continue on the next page.

Named developing or emerging country

1

Turn over

1. (e) continued.

2

(continued on the next page)

Turn over

1. continued.

**(f) Study Figure 1b in the
Resource Booklet.**

**Suggest ONE possible reason
for a change in the energy mix
shown.**

(3 marks)

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

Turn over

1. (f) continued.

(continued on the next page)

1. continued.

(g) Explain ONE advantage and ONE disadvantage of using renewable energy sources.

(4 marks)

Answer lines continue on the next page.

Advantage

Turn over

1. (g) continued.

Disadvantage

(continued on the next page)

1. continued.

**(h) Study Figure 1c in the
Resource Booklet.**

**Analyse reasons for changes in
the employment sectors shown.**

**Refer to the resource in your
answer.**

(8 marks)

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

Turn over

1. (h) continued.

1. (h) continued.

1. (h) continued.

1. (h) continued.

(Total for Question 1 = 25 marks)

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

☐

2. Rural environments

(a) (i) Identify a type of goods
provided by a tropical forest.

A recycling of nutrients

B tourism

C timber

D wildlife habitat

Answer

(1 mark)

(continued on the next page)

Turn over

2. (a) continued.

**(ii) Define the term
subsistence farming.**

(1 mark)

(continued on the next page)

2. continued.

(b) Identify the characteristic of a tundra ecosystem.

A temperatures below 0°C most of the year

B no presence of permafrost

C precipitation all year round

D rich in nutrients

Answer

(1 mark)

(continued on the next page)

Turn over

2. continued.

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

**Suggest ONE reason
suburbanisation has lead to
changes in this rural area.
(2 marks)**

(continued on the next page)

Turn over

2. continued.

**(d) State ONE way farmers try to
increase crop yields.**

(1 mark)

(continued on the next page)

2. continued.

**(e) For a named developed country,
explain TWO ways farm incomes
can be diversified.**

(4 marks)

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

Named developed country

1

Turn over

2. (e) continued.

2

(continued on the next page)

2. continued.

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

**Suggest ONE way the patterns
shown in Figure 2b might change
the characteristics of rural areas.**

(3 marks)

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

Turn over

2. (f) continued.

(continued on the next page)

2. continued.

(g) Explain TWO strategies being used to make rural living more sustainable in developing or emerging countries.

(4 marks)

Answer lines continue on the next page.

1 _____

Turn over

2. (g) continued.

2 _____

(continued on the next page)

2. continued.

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

**Analyse the factors that are
leading to changes in rural areas
in developing and emerging
countries.**

**Refer to the resource in your
answer.**

(8 marks)

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

Turn over

2. (h) continued.

2. (h) continued.

2. (h) continued.

2. (h) continued.

(Total for Question 2 = 25 marks)

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

☐

3. Urban environments

(a) (i) Identify the feature you would expect to find in a city centre.

A theme park

B houses with large gardens

C business park

D financial district

Answer

(1 mark)

(continued on the next page)

Turn over

3. (a) continued.

**(ii) State ONE reason for
changing land values in
different areas of a city.**

(1 mark)

(continued on the next page)

3. continued.

**(b) Identify a factor that can affect
land use patterns.**

A infrastructure

B international agreements

C GDP per capita

D weather

Answer

(1 mark)

(continued on the next page)

Turn over

3. continued.

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

**Suggest ONE advantage of
building on the greenfield site
shown.**

(2 marks)

(continued on the next page)

Turn over

3. continued.

**(d) Define the term
counter–urbanisation.**

(1 mark)

(continued on the next page)

3. continued.

(e) Explain TWO factors that affect the rate of urbanisation.

(4 marks)

Answer lines continue on the next page.

1 _____

2 _____

Turn over

3. (e) continued.

(continued on the next page)

3. continued.

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

**Suggest ONE reason for a trend
shown.**

(3 marks)

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

Turn over

3. (f) continued.

(continued on the next page)

3. continued.

(g) For a named developing or emerging country, explain how TWO groups of stakeholders are trying to manage environmental urban challenges.

(4 marks)

Answer lines continue on the next two pages.

Named developing or emerging country

3. (g) continued.

1 _____

2 _____

(continued on the next page)

Turn over

3. continued.

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

**Analyse the transport
problems associated with
rapid urbanisation.**

**Refer to the resource in your
answer.**

(8 marks)

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

Turn over

3. (h) continued.

3. (h) continued.

Turn over

3. (h) continued.

3. (h) continued.

(Total for Question 3 = 25 marks)

TOTAL FOR SECTION A = 50 MARKS

Turn over

SECTION B

Geographical enquiry

Answer ONE question only from this section.

Some questions are multiple choice. Write the letters(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

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

(i) Identify ONE of the open questions in the questionnaire.

(1 mark)

(continued on the next page)

Turn over

4. (a) continued.

(ii) Explain why closed questions can be useful in a questionnaire.

(2 marks)

(continued on the next page)

4. continued.

**Study Figure 4b in the
Resource Booklet. It shows
environmental quality scores
collected at regular distances from a
new power plant.**

(continued on the next page)

4. continued.

(b) (i) Look at the diagram for Question 4(b) in the Diagram Booklet.

It shows an incomplete scatter graph.

Plot the Environmental Quality Score for 40 metres and 60 metres (Figure 4b in the Resource Booklet) to complete the scatter graph in the Diagram Booklet. Some data has been plotted for you as an example.

(2 marks)

(continued on the next page)

Turn over

4. (b) continued.

**(ii) Identify at which distance
there is an anomaly.**

(1 mark)

**(iii) On the diagram in the
Diagram Booklet, draw a line
of best fit.**

(1 mark)

(continued on the next page)

4. (b) continued.

**(iv) Calculate the median
Environmental Quality Score
(EQS).**

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

**Show all your workings.
(2 marks)**

**Answer space continues on
the next page.**

4. (b) (iv) continued.

(continued on the next page)

Turn over

4. continued.

**(c) Explain how secondary data
could have been used to support
this enquiry.**

(3 marks)

(continued on the next page)

Turn over

4. continued.

(d) You have studied economic activity and energy as part of your own geographical enquiry.

State the title of your geographical enquiry.

Evaluate how far your data collection methods allowed you to achieve your aim.

(8 marks)

Answer lines are on the next four pages.

Turn over

4. (d) continued.

Geographical enquiry title

Turn over

4. (d) continued.

Turn over

4. (d) continued.

Turn over

4. (d) continued.

(Total for Question 4 = 20 marks)

Turn over

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

☐

5. Investigating rural environments

(a) Study Figure 5a in the Resource Booklet.

(i) Identify ONE of the open questions in the questionnaire.

(1 mark)

(continued on the next page)

Turn over

5. (a) continued.

**(ii) Explain why closed
questions can be useful in a
questionnaire.**

(2 marks)

(continued on the next page)

Turn over

5. continued.

**Study Figure 5b in the
Resource Booklet. It shows
environmental quality scores
collected at regular distances from
the new collection of farm shops.**

(continued on the next page)

5. continued.

(b) (i) Look at the diagram for Question 5(b) in the Diagram Booklet.

It shows an incomplete scatter graph.

Plot the Environmental Quality Score for 40 metres and 60 metres (Figure 5b in the Resource Booklet) to complete the scatter graph in the Diagram Booklet. Some data has been plotted for you as an example.

(2 marks)

(continued on the next page)

Turn over

5. (b) continued.

**(ii) Identify at which distance
there is an anomaly.**

(1 mark)

**(iii) On the diagram in the
Diagram Booklet, draw a line
of best fit.**

(1 mark)

(continued on the next page)

5. (b) continued.

**(iv) Calculate the median
Environmental Quality Score
(EQS).**

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

**Show all your workings.
(2 marks)**

**Answer space continues on
the next page.**

5. (b) (iv) continued.

(continued on the next page)

5. continued.

**(c) Explain how secondary data
could have been used to support
this enquiry.**

(3 marks)

(continued on the next page)

Turn over

5. continued.

(d) You have studied rural environments as part of your own geographical enquiry.

State the title of your geographical enquiry

Evaluate how far your data collection methods allowed you to achieve your aim.

(8 marks)

Answer lines are on the next four pages.

Turn over

5. (d) continued.

Geographical enquiry title

Turn over

5. (d) continued.

Turn over

5. (d) continued.

Turn over

5. (d) continued.

(Total for Question 5 = 20 marks)

Turn over

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

☐

6. Investigating urban environments

(a) Study Figure 6a in the Resource Booklet.

(i) Identify ONE of the open questions in the questionnaire.

(1 mark)

(continued on the next page)

Turn over

6. (a) continued.

**(ii) Explain why closed
questions can be useful in a
questionnaire.**

(2 marks)

(continued on the next page)

Turn over

6. continued.

(b) Study Figure 6b in the Resource Booklet. It shows environmental quality scores collected at regular distances from the new bus station.

(continued on the next page)

6. (b) continued.

(i) Look at the diagram for Question 6(b) in the Diagram Booklet. It shows an incomplete scatter graph. Plot the Environmental Quality Score for 40 metres and 60 metres (Figure 6b in the Resource Booklet) to complete the scatter graph in the Diagram Booklet. Some data has been plotted for you as an example.

(2 marks)

(continued on the next page)

Turn over

6. (b) continued.

**(ii) Identify at which distance
there is an anomaly.**

(1 mark)

**(iii) On the diagram in the
Diagram Booklet, draw a line
of best fit.**

(1 mark)

(continued on the next page)

6. (b) continued.

**(iv) Calculate the median
Environmental Quality Score
(EQS).**

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

**Show all your workings.
(2 marks)**

**Answer space continues on
the next page.**

6. (b) (iv) continued.

(continued on the next page)

6. continued.

**(c) Explain how secondary data
could have been used to support
this enquiry.**

(3 marks)

(continued on the next page)

Turn over

6. continued.

(d) You have studied urban environments as part of your own geographical enquiry.

State the title of your geographical enquiry.

Evaluate how far your data collection methods allowed you to achieve your aim.

(8 marks)

Answer lines continue on the next four pages.

Turn over

6. (d) continued.

Geographical enquiry title

6. (d) continued.

Turn over

6. (d) continued.

Turn over

6. (d) continued.

(Total for Question 6 = 20 marks)

TOTAL FOR SECTION B = 20 MARKS

Turn over

SECTION C

Global issues

Answer ONE question only from this section.

Some questions are multiple choice. Write the letters(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) Identify a cause of deforestation.

A increased humidity

B increased rainfall

C tourism industry

D logging industry

Answer

(1 mark)

(continued on the next page)

Turn over

7. continued.

(b) Identify an impact of deforestation.

A increased biodiversity

B increased habitat for wildlife

C increased soil erosion

D reduced energy production

Answer

(1 mark)

(continued on the next page)

Turn over

7. continued.

**(c) State TWO causes of
desertification.**

(2 marks)

1 _____

2 _____

(continued on the next page)

Turn over

7. continued.

**(d) (i) Study Figure 7a in the
Resource Booklet.**

**Identify the labelled country
with the predicted highest
decline in crop yields.**

(1 mark)

(continued on the next page)

Turn over

7. (d) continued.

**(ii) Compare the predicted
changes for South America
and Europe.**

(2 marks)

(continued on the next page)

Turn over

7. (d) continued.

**(iii) Suggest ONE reason for the
predicted changes shown in
Figure 7a.**

(2 marks)

(continued on the next page)

7. (d) continued.

**(iv) Suggest ONE reason why
the data shown in Figure 7a
might NOT be useful when
considering the impact of
climate change.**

(2 marks)

(continued on the next page)

Turn over

7. continued.

(e) State TWO physical factors that affect the distribution of a named fragile environment.

(2 marks)

Answer lines continue on the next page.

Named fragile environment

1

Turn over

7. (e) continued.

2 _____

(continued on the next page)

7. continued.

(f) Explain TWO ways to reduce water—resource shortages.

(4 marks)

Answer lines continue on the next page.

1 _____

2 _____

7. (f) continued.

(continued on the next page)

7. continued.

**(g) Study Figure 7b in the
Resource Booklet.**

**Assess strategies used for
sustainable tropical rainforest
management.**

**Refer to the resource in your
answer.**

(6 marks)

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

Turn over

7. (g) continued.

Turn over

7. (g) continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

(continued on the next page)

Turn over

7. continued.

(h) Discuss the view:

“Responses to climate change may be more effective if led by international organisations.”

Use Figures 7a and 7b from the Resource Booklet, and your own knowledge and understanding to support your answer.

Refer to the resources in your answer.

(12 marks)

Answer lines are on the next five pages.

Turn over

7. (h) continued.

Turn over

7. (h) continued.

Turn over

7. (h) continued.

Turn over

7. (h) continued.

Turn over

7. (h) 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 an example of forced migration.

A moving to another country for work

B moving to another country to study

C moving to another country due to war

D moving to another country to be with family

Answer

(1 mark)

(continued on the next page)

Turn over

8. (a) continued.

(ii) Identify a pull factor for migration.

A more job opportunities

B more unemployment

C lack of services

D lack of housing

Answer

(1 mark)

(continued on the next page)

Turn over

8. continued.

**(b) State ONE reason why a
government might want to
encourage sustainable tourism.
(2 marks)**

(continued on the next page)

8. continued.

**(c) (i) Study Figure 8a in the
Resource Booklet.**

**Identify the labelled country
with the highest level of
foreign direct investment.
(1 mark)**

(continued on the next page)

Turn over

8. (c) continued.

**(ii) Compare the pattern for
North America and Africa
shown in Figure 8a.**

(2 marks)

(continued on the next page)

Turn over

8. (c) continued.

**(iii) Suggest ONE reason for the
pattern shown in Figure 8a.**

(2 marks)

(continued on the next page)

Turn over

8. (c) continued.

**(iv) Explain why the data shown
in Figure 8a might NOT be a
good indicator of the global
economy.**

(2 marks)

(continued on the next page)

Turn over

8. continued.

**(d) State TWO ways countries
manage migration.**

(2 marks)

1 _____

2 _____

(continued on the next page)

Turn over

8. continued.

(e) Explain TWO impacts of international migration on the countries migrants have left (donor countries).

(4 marks)

Answer lines continue on the next page.

1

Turn over

8. (e) continued.

2 _____

(continued on the next page)

8. continued.

**(f) Study Figure 8b in the
Resource Booklet.**

Assess the impacts of TNCs.

**Refer to the resource in your
answer.**

(6 marks)

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

Turn over

8. (f) continued.

Turn over

8. (f) continued.

(continued on the next page)

Turn over

8. continued.

(g) Discuss the view:

“Advances in technology have been the most important factor driving the global economy.”

Use Figures 8a and 8b from the Resource Booklet, and your own knowledge and understanding to support your answer.

Refer to the resources in your answer.

(12 marks)

Answer lines are on the next five pages.

Turn over

8. (g) continued.

8. (g) continued.

Turn over

8. (g) continued.

8. (g) continued.

Turn over

8. (g) 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 which of the following would be best to measure a country's development.

- A Climate Change Performance Index**
- B Environmental Quality Index**
- C Flood Risk Index**
- D Human Development Index**

Answer

(1 mark)

(continued on the next page)

Turn over

9. (a) continued.

(ii) Identify a reason for lower mortality rates in developed countries.

A improved access to retail services

B improved access to healthcare services

C improved access to airports

D improved access to legal services

Answer

(1 mark)

(continued on the next page)

Turn over

9. continued.

**(b) State ONE reason why there
are different measures of
development.**

(2 marks)

(continued on the next page)

Turn over

9. continued.

**(c) (i) Study Figure 9a in the
Resource Booklet**

**Identify the country labelled
in Figure 9a with the lowest
level of GDP per capita.**

(1 mark)

(continued on the next page)

Turn over

9. (c) continued.

**(ii) Compare the pattern for
Europe and South America
shown in Figure 9a.**

(2 marks)

(continued on the next page)

9. (c) continued.

**(iii) Suggest ONE possible
reason for the pattern shown
in Figure 9a.**

(2 marks)

(continued on the next page)

Turn over

9. (c) continued.

**(iv) Explain why the data shown
in Figure 9a may NOT show
an accurate picture of global
development.**

(2 marks)

(continued on the next page)

Turn over

9. continued.

**(d) State TWO quality of life
indicators other than GDP
per capita.**

(2 marks)

1 _____

2 _____

(continued on the next page)

Turn over

9. continued.

(e) Explain TWO impacts of uneven development within a country.

(4 marks)

Answer lines continue on the next page.

1 _____

2 _____

Turn over

9. (e) continued.

(continued on the next page)

9. continued.

**(f) Study Figure 9b in the
Resource Booklet.**

**Assess the different views on
how to tackle the development
gap.**

**Refer to the resource in your
answer.**

(6 marks)

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

Turn over

9. (f) continued.

Turn over

9. (f) continued.

(continued on the next page)

9. continued.

(g) Discuss the view:

**“Uneven global development
can be reduced most effectively
through international aid.”**

**Use Figures 9a and 9b from the
Resource Booklet, and your own
knowledge and understanding to
support your answer.**

**Refer to the resources in your
answer.**

(12 marks)

**Answer lines are on the next five
pages.**

Turn over

9. (g) continued.

9. (g) continued.

Turn over

9. (g) continued.

Turn over

9. (g) continued.

Turn over

9. (g) continued.

(Total for Question 9 = 35 marks)

TOTAL FOR SECTION C = 35 MARKS

TOTAL FOR PAPER = 105 MARKS

END OF PAPER
