

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

Total Marks

Geography
PAPER 2: Human geography

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

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 out 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.

SECTION A

Answer TWO questions 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

☐

1. Economic activity and energy

(a) (i) Identify ONE advantage of using solar energy.

A Many turbines are needed.

B Could also protect coastlines from erosion.

C Can be used in most areas of the world.

D The waste can be recycled.

Answer

(1 mark)

(continued on the next page)

Turn over

1. (a) continued.

(ii) Define the term **GEOTHERMAL ENERGY**.

(1 mark)

(continued on the next page)

Turn over

1. continued.

(b) Identify the correct definition of the term
ENERGY GAP.

- A** The difference between renewable and non-renewable energy use.
- B** The difference between a country's energy demand and its ability to produce it.
- C** The difference between production of energy ten years ago and today.
- D** The difference between energy imports and population growth.

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 influenced the location of this factory.

(2 marks)

(d) State ONE economic activity that is part of the primary sector.

(1 mark)

(continued on the next page)

Turn over

1. continued.

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

**Suggest ONE possible reason for changes to
secondary sector employment.**

(3 marks)

(continued on the next page)

Turn over

1. continued.

(f) Explain ONE advantage and ONE disadvantage of using non-renewable energy sources.

(4 marks)

Advantage

Disadvantage

(continued on the next page)

Turn over

1. continued.

(g) For a named developed country, explain TWO ways it has tried to increase energy security.

(4 marks)

Answer lines continue on the next page.

Named developed country

1

2

1. (g) continued.

(continued on the next page)

1. continued.

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

Analyse the reasons for the patterns of informal employment.

Refer to the resource in your answer.

(8 marks)

Answer lines continue on the next two pages.

1. (h) continued.

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Turn over

1. (h) 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 a service provided by a tropical forest.

A recycling of nutrients

B medicinal plants

C different types of timber

D many food types

Answer

(1 mark)

(ii) Define the term **NATURAL ECOSYSTEM**.

(1 mark)

(continued on the next page)

Turn over

2. continued.

(b) Identify the definition of the term
SUBSISTENCE FARMING.

A farming that reduces environmental impact

B farming to make a profit

C farming to meet the needs of the farmer
and family

D farming in which products are intended for
sale

Answer

(1 mark)

(continued on the next page)

Turn over

2. continued.

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

**Suggest how natural hazards can cause
changes in rural areas.**

(2 marks)

**(d) State ONE impact of the negative multiplier
effect in rural areas.**

(1 mark)

(continued on the next page)

Turn over

2. continued.

(e) For a named developing or emerging country, explain TWO ways farm incomes are being diversified.

(4 marks)

Answer lines continue on the next page.

Named developing or emerging country

1

2

2. (e) continued.

(continued on the next page)

2. continued.

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

**Suggest ONE reason for the pattern shown in
Figure 2b.**

(3 marks)

(continued on the next page)

Turn over

2. continued.

(g) Explain TWO strategies that improve quality of life in rural environments.

(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

2. continued.

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

Analyse the factors that affect the structure of rural populations in developing countries.

Refer to the resource in your answer.

(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

☐

3. Urban environments

(a) (i) Identify the location where you would usually find a science park.

A central business district

B city centre

C remote rural location

D rural–urban fringe

Answer

(1 mark)

(ii) State ONE reason why suburbanisation occurs.

(1 mark)

(continued on the next page)

Turn over

3. continued.

(b) Identify a factor that can affect urban land use values.

A food supplies

B temperature

C international aid

D transport connections

Answer

(1 mark)

(continued on the next page)

3. continued.

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

Explain ONE advantage of building on a brownfield site.

(2 marks)

(d) Define the term **SEGREGATION**.

(1 mark)

(continued on the next page)

Turn over

3. continued.

(e) Explain TWO factors that have led to the emergence of megacities.

(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 a trend shown.

(3 marks)

(continued on the next page)

3. continued.

(g) For a named developed country, explain how
TWO different groups of people manage
environmental urban challenges.

(4 marks)

Answer lines continue on the next page.

Named developed country

1

2

3. (g) continued.

(continued on the next page)

3. continued.

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

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

Refer to the resource in your answer.

(8 marks)

Answer lines continue on the next two pages.

Turn over

3. (h) continued.

[illegible]

Turn over

3. (h) continued.

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(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 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

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

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

(1 mark)

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

(2 marks)

(continued on the next page)

Turn over

4. continued.

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

(i) Identify a type of sampling used for the questionnaire.

(1 mark)

(ii) Look at the diagram for Question 4(b)(ii) in the Diagram Booklet. Plot the remaining data for Site 1 (Figure 4c in the Resource Booklet) to complete the bar graph in the Diagram Booklet.

Some data has been plotted for you as an example.

(2 marks)

(continued on the next page)

4. (b) continued.

(iii) Identify the site that had the largest range for Question 1 in the questionnaire.

(1 mark)

(iv) Calculate the mean number of people who would like to own an electric car (Question 5).

(2 marks)

Write your answer to 1 decimal place.

Show all your workings.

(continued on the next page)

Turn over

4. continued.

(c) Explain ONE other data collection method the students could have used in this enquiry.

(3 marks)

(continued on the next page)

4. continued.

(d) You have studied economic activity and energy for your own geographical enquiry.

State the title of your geographical enquiry.

Evaluate the data presentation techniques you used.

(8 marks)

Answer lines continue on the next three pages.

Geographical enquiry title

Turn over

4. (d) continued.

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Turn over

4. (d) continued.

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Turn over

4. (d) continued.

(Total for Question 4 = 20 marks)

If you answer Question 5 put a cross in this box

☐

5. Investigating rural environments

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

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

(1 mark)

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

(2 marks)

(continued on the next page)

Turn over

5. continued.

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

(i) Identify the type of sampling used for the questionnaire.

(1 mark)

(ii) Look at the diagram for Question 5(b)(ii) in the Diagram Booklet. Plot the remaining data for Site 1 (Figure 5c in the Resource Booklet) to complete the bar graph in the Diagram Booklet.

Some data has been plotted for you as an example.

(2 marks)

(continued on the next page)

5. (b) continued.

(iii) Identify the site that had the largest range
for Question 1 in the questionnaire.

(1 mark)

(iv) Calculate the mean number of people
who travelled out of the village frequently
(Question 5).

(2 marks)

Write your answer to 1 decimal place.

Show all your workings.

(continued on the next page)

Turn over

5. continued.

- (c) Explain ONE OTHER data collection method
the students could have used in this enquiry.
(3 marks)**

(continued on the next page)

5. continued.

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

State the title of your geographical enquiry.

Evaluate the data presentation techniques you used.

(8 marks)

Answer lines continue on the next three pages.

Geographical enquiry title

5. (d) continued.

[illegible]

Turn over

5. (d) continued.

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Turn over

5. (d) continued.

(Total for Question 5 = 20 marks)

If you answer Question 6 put a cross in this box

☐

6. Investigating urban environments

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

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

(1 mark)

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

(2 marks)

(continued on the next page)

Turn over

6. continued.

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

(i) Identify the type of sampling used for the questionnaire.

(1 mark)

(ii) Look at the diagram for Question 6(b)(ii) in the Diagram Booklet. Plot the remaining data for Site 1 (Figure 6c in the Resource Booklet) to complete the bar 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.

(iii) Identify the site that had the largest range for Question 1 in the questionnaire.

(1 mark)

(iv) Calculate the mean number of people who would like to recycle more (Question 5).

(2 marks)

Write your answer to 1 decimal place.

Show all your workings.

(continued on the next page)

Turn over

6. continued.

- (c) Explain ONE OTHER data collection method
the students could have used in this enquiry.
(3 marks)

(continued on the next page)

6. continued.

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

State the title of your geographical enquiry.

Evaluate the data presentation techniques you used.

(8 marks)

Answer lines continue on the next three pages.

Geographical enquiry title

Turn over

6. (d) continued.

[illegible]

Turn over

6. (d) continued.

[illegible]

Turn over

6. (d) continued.

(Total for Question 6 = 20 marks)

TOTAL FOR SECTION B = 20 MARKS

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) Identify a cause of desertification.

A hydroelectric power

B increased rainfall

C international trade

D overgrazing

Answer

(1 mark)

(continued on the next page)

Turn over

7. continued.

(b) Identify an impact of desertification.

A increased exports

B increase of species diversity

C reduced crop yields

D reduced energy production

Answer

(1 mark)

(continued on the next page)

Turn over

7. continued.

**(c) Explain ONE natural cause of climate change.
(2 marks)**

(continued on the next page)

Turn over

7. continued.

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

**(i) Identify the labelled country most at risk
from sea level rise.**

(1 mark)

**(ii) Compare the level of risk for Asia and
North America.**

(2 marks)

(continued on the next page)

Turn over

7. (d) continued.

**(iii) Suggest ONE reason for the pattern shown.
(2 marks)**

**(iv) Explain why the data shown is useful for
understanding the potential impacts of
climate change.
(2 marks)**

(continued on the next page)

Turn over

7. continued.

(e) State TWO causes of deforestation.

(2 marks)

1 _____

2 _____

(continued on the next page)

Turn over

7. continued.

(f) Explain TWO impacts of deforestation.
(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

7. continued.

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

Assess strategies used to reduce threats from desertification.

Refer to the resource in your answer.

(6 marks)

Answer lines continue on the next page.

Turn over

7. (g) continued.

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(continued on the next page)

Turn over

7. continued.

(h) Discuss the view:

“Strategies to reduce threats to fragile environments should be led by governments.”

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 continue on the next three pages.

Turn over

7. (h) continued.

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Turn over

7. (h) continued.

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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 voluntary migration.

A moving to another country for work

B moving to another country to escape poverty

C moving to another country due to war

D moving to another country due to exploitation

Answer

(1 mark)

(continued on the next page)

Turn over

8. (a) continued.

(ii) Identify a push factor for migration.

A job opportunities

B shortage of jobs

C better services

D better education

Answer

(1 mark)

(continued on the next page)

Turn over

8. continued.

(b) State ONE reason why a government might want to encourage 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 percentage of GDP from tourism.**

(1 mark)

**(ii) Compare the patterns shown for Asia and
for South America.**

(2 marks)

(continued on the next page)

Turn over

8. (c) continued.

(iii) Suggest ONE possible impact of the global pattern shown.

(2 marks)

(continued on the next page)

8. (c) continued.

- (iv) Explain why the data shown in Figure 8a might be a good indicator of a global economy.
(2 marks)

(continued on the next page)

8. continued.

(d) Name TWO global institutions that can influence the global economy.

(2 marks)

1 _____

2 _____

(continued on the next page)

8. continued.

(e) Explain TWO impacts of migration on destination countries.

(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

8. continued.

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

Assess the role of TNCs in globalisation.

Refer to the resource in your answer.

(6 marks)

Answer lines continue on the next page.

[illegible]

Turn over

8. (f) continued.

[illegible]

(continued on the next page)

Turn over

8. continued.

(g) Discuss the view:

“The advantages of globalisation outweigh the disadvantages.”

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 continue on the next three pages.

Turn over

8. (g) continued.

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Turn over

8. (g) continued.

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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 the type of diagram most suitable to examine population structure.

A kite diagram

B scattergraph

C pie chart

D population pyramid

Answer

(1 mark)

(continued on the next page)

Turn over

9. (a) continued.

(ii) Identify a reason for falling birth rates in developing or emerging countries.

A improved access to retail services

B improved access to healthcare services

C improved access to transport services

D improved access to legal services

Answer

(1 mark)

(continued on the next page)

Turn over

9. continued.

(b) State TWO ways of measuring inequality.

(2 marks)

1 _____

2 _____

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

**Identify the country labelled in Figure 9a
with the highest levels of international aid
received.**

(1 mark)

(continued on the next page)

Turn over

9. (c) continued.

(ii) Compare the level of aid received by
South America and Africa.

(2 marks)

(continued on the next page)

9. (c) continued.

(iii) Suggest ONE possible reason for the pattern shown.

(2 marks)

(continued on the next page)

9. (c) continued.

**(iv) Explain why the data shown in Figure 9a
may be useful for understanding patterns
of global development.**

(2 marks)

(continued on the next page)

9. continued.

(d) State TWO types of international aid.

(2 marks)

1 _____

2 _____

(continued on the next page)

Turn over

9. continued.

(e) Explain TWO ways uneven development within a country can affect human welfare.

(4 marks)

1 _____

2 _____

(continued on the next page)

Turn over

9. continued.

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

Assess the advantages and disadvantages of bottom–up approaches to support development.

Refer to the resource in your answer.

(6 marks)

Answer lines continue on the next page.

Turn over

9. (f) continued.

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(continued on the next page)

Turn over

9. continued.

(g) Discuss the view:

“International strategies to reduce uneven global development are the most effective.”

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 continue on the next three pages.

Turn over

9. (g) continued.

[illegible]

Turn over

9. (g) continued.

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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
