

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

Total Marks

# **Geography**

## **Paper 2: Human Geography**

**Thursday 13 June 2019 – Morning**

**Time: 1 hour 45 minutes plus your additional time allowance.**

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

<b>Surname</b>										
<b>Other names</b>										
<b>Centre Number</b>										
<b>Candidate Number</b>										

**Y59840A**

**YOU MUST HAVE**

**Calculator**

**YOU WILL BE GIVEN**

**Resource Book**

**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 – there may be more space than you need.**

**Turn over**

**Calculators may be used.**

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

## **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.**

**Turn over**

## **ADVICE**

**Read each question carefully before you start to answer it.**

**Check your answers if you have time at the end.**

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**Turn over**

**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.**

**Turn over**

**6**

**Indicate which question you are answering by marking a cross in the box. If you change your mind, put a line through the box and then indicate your new question with a cross.**

**If you answer Question 1 put a cross in this box**

☐

**Turn over**

**1. Economic activity and energy.**

**(a) Identify what is meant by an economic sector.**

- A the chain of production in manufacturing**
- B an economic shift in employment**
- C a classification system for types of employment**
- D a classification of employment structures**

**Answer**

**(1 mark)**

**(continued on the next page)**

**Turn over**

1. continued.

(b) Identify the economic sector that includes agriculture as an activity.

**A** quaternary

**B** tertiary

**C** secondary

**D** primary

Answer

(1 mark)

(continued on the next page)

Turn over



**1. continued.**

**(c) Define the term raw material.**

**(1 mark)**

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**(continued on the next page)**

**Turn over**

**1. continued.**

**(d) Study Figure 1a in the  
Resource Book.**

**Suggest ONE piece of evidence  
that shows there is informal  
employment in this photograph.  
(2 marks)**

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**(continued on the next page)**

**Turn over**

**1. continued.**

**(e) State ONE example of a  
renewable energy resource.**

**(1 mark)**

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**(f) Explain TWO reasons why the  
production of energy varies  
between countries.**

**(4 marks)**

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

**Turn over**

1. (f) continued.

1

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(continued on the next page)

Turn over

**1. continued.**

**(g) Study Figure 1b in the  
Resource Book.**

**Suggest ONE reason for the  
projected increase in energy  
demand in Asia.**

**(3 marks)**

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

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**Turn over**

1. (g) continued.

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(continued on the next page)

Turn over

**1. continued.**

- (h) For a named developing OR emerging country, explain TWO ways the increasing demand for energy has created problems. (4 marks)**

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

**Named developing or emerging country**

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**Turn over**

1. (h) continued.

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(continued on the next page)

Turn over



**1. continued.**

**(i) Study Figure 1c in the  
Resource Book.**

**Analyse the reasons for changes  
in primary and quaternary  
employment.**

**(8 marks)**

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

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**Turn over**

**1. (i) continued.**

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**Turn over**

**1. (i) continued.**

[illegible]

**Turn over**

**1. (i) 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.

**(Total for Question 1 = 25 marks)**

**Turn over**

**21**

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

☐

**Turn over**

**2. Rural environments.**

**(a) Identify the meaning of the term  
NGO**

**A non-governmental  
organisation**

**B non-global organisation**

**C non-geographically  
organised**

**D non-global operation**

**Answer**

**(1 mark)**

**(continued on the next page)**

**Turn over**

**2. continued.**

**(b) Define the term negative multiplier effect.**

**(1 mark)**

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**(continued on the next page)**

**Turn over**

**2. continued.**

**(c) Identify ONE example of a global biome.**

**A pond**

**B moorland**

**C salt marsh**

**D tundra**

**Answer**

**(1 mark)**

**(continued on the next page)**

**Turn over**



**2. continued.**

**(d) Study Figure 2a in the  
Resource Book.**

**Suggest ONE piece of evidence  
from the photograph that shows  
this farm has diversified.**

**(2 marks)**

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**(continued on the next page)**

**Turn over**

**2. continued.**

**(e) State ONE other type of rural or farm diversification.**

**(1 mark)**

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**(continued on the next page)**

**Turn over**

**2. continued.**

**(f) Explain TWO factors that have led to changes in rural areas in a named developed country.**

**(4 marks)**

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

**Named developed country**

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**Turn over**

**2. (f) continued.**

**1**

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**2**

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**(continued on the next page)**

**Turn over**

**2. continued.**

**(g) Study Figure 2b in the  
Resource Book.**

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

**(3 marks)**

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

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**Turn over**

2. (g) continued.

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(continued on the next page)

Turn over

**2. continued.**

**(h) For a named developing OR emerging country, explain how TWO different groups or organisations have managed challenges within rural environments.**

**(4 marks)**

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

**Named developing or emerging country**

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**Turn over**

**2. (h) continued.**

**Group or organisation 1**

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**Group or organisation 2**

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**Turn over**



**2. (h) continued.**

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**(i) Study Figure 2c in the  
Resource Book.**

**Analyse how exploiting natural  
ecosystems can affect their  
goods and services.**

**(8 marks)**

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

**Turn over**

2. (i) continued.

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Turn over

2. (i) continued.

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Turn over

2. (i) continued.

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Turn over

**2. (i) continued.**

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**(Total for Question 2 = 25 marks)**

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**Turn over**

**38**

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

☐

**Turn over**

### 3. Urban environments.

(a) Identify the meaning of the term **counter-urbanisation**.

- A** increasing proportion of people living in urban areas
- B** population movement from one country to another
- C** increasing population growth on the edge of urban areas
- D** population movement from urban areas to the countryside

Answer

(1 mark)

(continued on the next page)

Turn over

**3. continued.**

**(b) Define the term segregation.**

**(1 mark)**

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**(continued on the next page)**

**Turn over**



**3. continued.**

**(c) Identify the meaning of the term megacity.**

**A** a very large urban area

**B** a city with a population over 1 million

**C** a city with a population over 10 million

**D** a very large rural area

**Answer**

**(1 mark)**

**(continued on the next page)**

**Turn over**

**3. continued.**

**(d) Study Figure 3a in the  
Resource Book.**

**Suggest ONE piece of  
evidence from the photograph  
that shows this area has  
challenges associated with rapid  
urbanisation.**

**(2 marks)**

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**(continued on the next page)**

**Turn over**

**3. continued.**

**(e) State ONE group or organisation involved in managing urban challenges.**

**(1 mark)**

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**(f) Explain TWO ways in which urban challenges have been managed.**

**(4 marks)**

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

**Turn over**

3. (f) continued.

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(continued on the next page)

Turn over

**3. continued.**

**(g) Study Figure 3b in the  
Resource Book.**

**Explain how ONE factor affects  
quality of life.**

**(3 marks)**

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

**Factor selected**

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**Turn over**

3. (g) continued.

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(continued on the next page)

Turn over

**3. continued.**

**(h) For a named developed country, explain TWO ways the rural–urban fringe has been developed.**

**(4 marks)**

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

**Named developed country**

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**Turn over**

**3. (h) continued.**

**1**

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**2**

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**(continued on the next page)**

**Turn over**



**3. continued.**

**(i) Study Figure 3c in the  
Resource Book.**

**Analyse the reasons for the  
changes in the global urban  
population.**

**(8 marks)**

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

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**Turn over**

**3. (i) continued.**

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**Turn over**

**3. (i) continued.**

[illegible]

**Turn over**

**3. (i) 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.**

**Indicate which question you are answering by marking a cross in the box. If you change your mind, put a line through the box and then indicate your new question with a cross.**

**If you answer Question 4 put a cross in this box**

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**Turn over**

**4. Investigating economic activity and energy.**

**You have studied economic activity and energy as part of your own geographical enquiry.**

**State the title of your geographical enquiry.**

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**(continued on the next page)**

**Turn over**

**4. continued.**

**(a) (i) State ONE type of  
sampling you used in your  
geographical enquiry.**

**(1 mark)**

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**(continued on the next page)**

**Turn over**

4. (a) continued.

(ii) Explain ONE way this sampling technique helped you to collect reliable data or information.

(2 marks)

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Turn over



**4. continued.**

**(b) Explain ONE way you managed a risk associated with your primary data collection.**

**(2 marks)**

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**(continued on the next page)**

**Turn over**

**4. continued.**

**(c) Draw an annotated sketch map or annotated diagram to show how you selected locations to collect your fieldwork data.**

**(3 marks)**

**Answer space continues on the next three pages.**

**Turn over**

4. (c) continued.

Turn over

4. (c) continued.

Turn over

4. (c) continued.

(continued on the next page)

Turn over

**4. continued.**

**(d) Explain TWO limitations of the method that you used to collect qualitative data.**

**(4 marks)**

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

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**Turn over**

4. (d) continued.

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Turn over

**4. continued.**

**(e) Study Figures 4a, 4b and 4c in the Resource Book. They show three different data presentation techniques from a student's investigation into developing energy resources.**

**The aim of the student's enquiry was to investigate the attitudes towards the plans for a new biomass power station in a rural part of Ireland.**

**(continued on the next page)**

**Turn over**



4. (e) continued.

**The student used three different presentation techniques to help understand people's opinions towards the proposed energy development.**

**Evaluate how effective the techniques were in presenting the data and information collected.**

**(8 marks)**

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

**Turn over**

4. (e) continued.

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Turn over

4. (e) continued.

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Turn over

4. (e) continued.

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Turn over

**4. (e) continued.**

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**(Total for Question 4 = 20 marks)**

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**Turn over**

**70**

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

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**Turn over**

**5. Investigating rural environments.**

**You have studied rural environments as part of your own geographical enquiry.**

**State the title of your geographical enquiry.**

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**(continued on the next page)**

**Turn over**

**5. continued.**

**(a) (i) State ONE type of  
sampling you used in your  
geographical enquiry.**

**(1 mark)**

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**(continued on the next page)**

**Turn over**



**5. (a) continued.**

**(ii) Explain ONE way this  
sampling technique helped  
you to collect reliable data or  
information.**

**(2 marks)**

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**Turn over**

**5. continued.**

**(b) Explain ONE way you managed a risk associated with your primary data collection.**

**(2 marks)**

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**(continued on the next page)**

**Turn over**

**5. continued.**

**(c) Draw an annotated sketch map or annotated diagram to show how you selected locations to collect your fieldwork data.**

**(3 marks)**

**Answer space continues on the next three pages.**

**Turn over**

**5. (c) continued.**

**Turn over**

**5. (c) continued.**

**Turn over**

**5. (c) continued.**

**(continued on the next page)**

**Turn over**

**5. continued.**

**(d) Explain TWO limitations of the method that you used to collect qualitative data.**

**(4 marks)**

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

**1**

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**Turn over**

5. (d) continued.

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(continued on the next page)

Turn over



**5. continued.**

**(e) Study Figures 5a, 5b and 5c in the Resource Book. They show three different data presentation techniques from a student's investigation into the changing use of rural environments.**

**The aim of the student's enquiry was to investigate the attitudes towards the plans for a new tourist development in the New Territories, Hong Kong.**

**(continued on the next page)**

**Turn over**

**5. (e) continued.**

**The student used three different presentation techniques to help understand people's opinions towards the proposed tourist development.**

**Evaluate how effective the techniques were in presenting the data and information collected.**

**(8 marks)**

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

**Turn over**

**5. (e) continued.**

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**Turn over**

5. (e) continued.

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Turn over

5. (e) continued.

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Turn over

**5. (e) continued.**

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**(Total for Question 5 = 20 marks)**

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**Turn over**

**87**

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

☐

**Turn over**

**6. Investigating urban environments.**

**You have studied urban environments as part of your own geographical enquiry.**

**State the title of your geographical enquiry.**

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**(continued on the next page)**

**Turn over**



**6. continued.**

**(a) (i) State ONE type of  
sampling you used in your  
geographical enquiry.**

**(1 mark)**

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**(continued on the next page)**

**Turn over**

**6. (a) continued.**

**(ii) Explain ONE way this  
sampling technique helped  
you to collect reliable data or  
information.**

**(2 marks)**

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**(continued on the next page)**

**Turn over**

**6. continued.**

**(b) Explain ONE way you managed a risk associated with your primary data collection.**

**(2 marks)**

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**(continued on the next page)**

**Turn over**

**6. continued.**

**(c) Draw an annotated sketch map or annotated diagram to show how you selected locations to collect your fieldwork data.**

**(3 marks)**

**Answer space continues on the next three pages.**

**Turn over**

**6. (c) continued.**

**Turn over**

**6. (c) continued.**

**Turn over**

**6. (c) continued.**

**(continued on the next page)**

**Turn over**

**6. continued.**

**(d) Explain TWO limitations of the method that you used to collect qualitative data.**

**(4 marks)**

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

**1**

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**Turn over**



6. (d) continued.

2

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(continued on the next page)

Turn over

**6. continued.**

**(e) Study Figures 6a, 6b and 6c in the Resource Book. They show three different data presentation techniques from a student's investigation into the changing use of urban environments.**

**The aim of the student's enquiry was to investigate the attitudes towards the plans for a new urban waste incinerator in Copenhagen, Denmark, on the edge of the city.**

**(continued on the next page)**

**Turn over**

**6. (e) continued.**

**The student used three different presentation techniques to help understand people's opinions towards the proposed urban waste incinerator development.**

**Evaluate how effective the techniques were in presenting the data and information collected.**

**(8 marks)**

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

**Turn over**

6. (e) continued.

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Turn over

**6. (e) continued.**

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**Turn over**

**6. (e) continued.**

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**Turn over**

**6. (e) continued.**

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**(Total for Question 6 = 20 marks)**

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**TOTAL FOR SECTION B = 20 MARKS**

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**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.**

**Turn over**



**Indicate which question you are answering by marking a cross in the box. If you change your mind, put a line through the box and then indicate your new question with a cross.**

**If you answer Question 7 put a cross in this box**

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**7. Fragile environments and climate change.**

- (a) (i) State ONE example of a greenhouse gas.  
(1 mark)**

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**(continued on the next page)**

**Turn over**

7. (a) continued.

(ii) Identify the meaning of the term **enhanced greenhouse effect**.

- A** cooling of the Earth's atmosphere resulting from human activities
- B** warming of the Earth's atmosphere resulting from human activities
- C** additional heat trapped in the Earth's atmosphere as a result of natural effects
- D** greenhouse gases naturally present in the Earth's atmosphere causing warming

Answer

(1 mark)

(continued on the next page)

Turn over

7. (a) continued.

(iii) Identify the meaning of the term **Milankovitch cycle**.

- A** cyclical movement of the Earth's orbit around the Sun
- B** differences in the amount of energy emitted from the Sun
- C** additional heat trapped in the Earth's atmosphere
- D** seasonal movement of the Sun in different orbits

Answer

(1 mark)

(continued on the next page)

Turn over

**7. continued.**

**(b) (i) Study Figure 7a in the  
Resource Book.**

**Identify the TWO countries  
labelled in Figure 7a with  
the most and least CO<sub>2</sub>  
emissions.**

**(2 marks)**

**Most**

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**Least**

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**(continued on the next page)**

**Turn over**

**7. (b) continued.**

**(ii) Suggest TWO reasons for  
the pattern shown on  
Figure 7a.**

**(4 marks)**

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

**1**

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**Turn over**

**7. (b) (ii) continued.**

**2**

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**(continued on the next page)**

**Turn over**

**7. continued.**

**(c) Explain TWO negative effects of deforestation on people in fragile environments.**

**(4 marks)**

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

**1**

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**Turn over**



7. (c) continued.

2

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(continued on the next page)

Turn over

**7. continued.**

**(d) Study Figure 7b in the  
Resource Book.**

**(i) Calculate the range in  
CO<sub>2</sub> emissions in India  
between 1960 and 2015**

**You must show all your  
workings in the space below  
and on the next page.**

**(2 marks)**

**Turn over**

**7. (d) (i) continued.**

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**(continued on the next page)**

**Turn over**

**7. (d) continued.**

**(ii) Identify the trends in  
CO<sub>2</sub> emissions in China,  
1960–2015  
(2 marks)**

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**(continued on the next page)**

**Turn over**

**7. continued.**

**(e) Study Figure 7c in the  
Resource Book.**

**Assess the different human  
factors that cause climate  
change.**

**(6 marks)**

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

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**Turn over**

7. (e) continued.

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Turn over

**7. (e) continued.**

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**(continued on the next page)**

**Turn over**

**7. continued.**

**(f) Discuss the view:**

**“Those people contributing the most to climate change will experience the greatest impact”.**

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

**(12 marks)**

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

**Turn over**



7. (f) continued.

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Turn over

7. (f) continued.

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7. (f) continued.

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Turn over

7. (f) continued.

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Turn over

**7. (f) continued.**

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**(Total for Question 7 = 35 marks)**

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**Turn over**

126

**If you answer Question 8 put a  
cross in this box**

☐

**Turn over**

**8. Globalisation and migration.**

**(a) (i) Identify the meaning of the term international migration.**

- A** people who cross a regional boundary within a country
- B** people going on holiday to an overseas destination
- C** people moving across international borders
- D** people moving from the city to the countryside

**Answer**

**(1 mark)**

**(continued on the next page)**

**Turn over**

8. (a) continued.

(ii) Identify the meaning of the term **IMF**

**A** International Monetary Foundation

**B** Internal Money Fund

**C** International Monetary Fund

**D** Interregional Monetary Foundation

Answer

(1 mark)

(continued on the next page)

Turn over



**8. continued.**

**(b) Define the term push factor.**

**(1 mark)**

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**(continued on the next page)**

**Turn over**

**8. continued.**

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

**Identify the TWO countries  
labelled in Figure 8a with the  
highest and lowest internet  
speeds.**

**(2 marks)**

**Highest**

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**Lowest**

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**(continued on the next page)**

**Turn over**

**8. (c) continued.**

**(ii) Suggest TWO reasons for  
the pattern shown on  
Figure 8a.**

**(4 marks)**

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

**1**

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**Turn over**

8. (c) continued.

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(continued on the next page)

Turn over

**8. continued.**

**(d) Explain TWO positive impacts of migration for destination areas.**

**(4 marks)**

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

**1**

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**Turn over**

8. (d) continued.

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(continued on the next page)

Turn over

**8. continued.**

**(e) Study Figure 8b in the  
Resource Book.**

**(i) Calculate the range in the  
‘Ease of doing business’  
index for Sub–Saharan Africa.**

**You must show all your  
workings in the space below  
and on the next page.**

**(2 marks)**

**Turn over**

**8. (e) (i) continued.**

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**(continued on the next page)**

**Turn over**



**8. (e) continued.**

**(ii) Identify the differences in  
the 'Ease of doing business'  
index between Europe and  
Central Asia and  
Sub-Saharan Africa.**

**(2 marks)**

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**(continued on the next page)**

**Turn over**

**8. continued.**

**(f) Study Figure 8c in the  
Resource Book.**

**Assess the different factors that  
have enabled globalisation.**

**(6 marks)**

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

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**Turn over**

8. (f) continued.

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Turn over

**8. (f) continued.**

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**(continued on the next page)**

**Turn over**

**8. continued.**

**(g) Discuss the view:**

**“The causes and impacts of globalisation are distributed unevenly”.**

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

**(12 marks)**

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

**Turn over**

8. (g) continued.

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Turn over

8. (g) continued.

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Turn over

8. (g) continued.

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Turn over



8. (g) continued.

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Turn over

**8. (g) continued.**

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**(Total for Question 8 = 35 marks)**

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**Turn over**

**If you answer Question 9 put a  
cross in this box**

☐

**9. Development and human welfare.**

**(a) (i) Identify the meaning of the term quality of life.**

- A** a person's well-being in terms of health and happiness
- B** a person's level of deprivation
- C** a person's cultural identity
- D** a person's type of employment and income level

**Answer**

**(1 mark)**

**(continued on the next page)**

**Turn over**

9. (a) continued.

(ii) Identify the meaning of the term **inequality**.

- A** poor access to resources and services
- B** good access to resources and services
- C** equal access to resources and services
- D** unequal access to resources and services

Answer

(1 mark)

(continued on the next page)

Turn over

**9. continued.**

**(b) Define the term  
development gap.  
(1 mark)**

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**(continued on the next page)**

**Turn over**

**9. continued.**

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

**Identify TWO countries  
labelled in Figure 9a with  
the highest and lowest  
inequality.**

**(2 marks)**

**Highest**

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**Lowest**

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**(continued on the next page)**

**Turn over**

9. (c) continued.

(ii) Suggest TWO reasons for the pattern shown on Figure 9a.

(4 marks)

Answer lines continue on the next page.

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Turn over



9. (c) (ii) continued.

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(continued on the next page)

Turn over

**9. continued.**

**(d) Explain how TWO international strategies have attempted to reduce uneven development.**

**(4 marks)**

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

**1**

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**Turn over**

9. (d) continued.

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(continued on the next page)

Turn over

**9. continued.**

**(e) Study Figure 9b in the  
Resource Book.**

**(i) Calculate the range in HDI for  
Thailand, 1980–2016**

**You must show all your  
workings in the space below  
and on the next page.**

**(2 marks)**

**Turn over**

9. (e) (i) continued.

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(continued on the next page)

Turn over

9. (e) continued.

(ii) Describe how HDI has  
changed in Tunisia,  
**1980–2016**

**(2 marks)**

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**(continued on the next page)**

**Turn over**

**9. continued.**

**(f) Study Figure 9c in the  
Resource Book.**

**Assess the different factors that  
have caused variations in global  
development.**

**(6 marks)**

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

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**Turn over**

9. (f) continued.

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Turn over



**9. (f) continued.**

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**(continued on the next page)**

**Turn over**

**9. continued.**

**(g) Discuss the view:**

**“International strategies are only one part of the solution to closing the development gap”.**

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

**(12 marks)**

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

**Turn over**

9. (g) continued.

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9. (g) continued.

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9. (g) continued.

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Turn over

9. (g) continued.

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9. (g) continued.

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**(Total for Question 9 = 35 marks)**

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**TOTAL FOR SECTION C = 35 MARKS**

**TOTAL FOR PAPER = 105 MARKS**

**END OF PAPER**

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