

Please write clearly in block capitals.

Centre number

Candidate number

Surname \_\_\_\_\_

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I declare this is my own work.

# INTERNATIONAL GCSE GEOGRAPHY

## Paper 1 Living with the Physical Environment

Friday 29 October 2021

07:00 GMT

Time allowed: 1 hour 30 minutes

### Materials

For this paper you must have:

- a ruler with millimetre measurements
- a calculator, which you are expected to use where appropriate.

### Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of the page.
- Answer **all** questions in **Sections A, B and C**.
- Answer **one** question from **Section D, either Question 4 or Question 5**.
- You must answer the questions in the spaces provided.  
Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- All working must be shown.
- Do all rough work in this book. Cross through any work you do not want to be marked.

### Information

- The maximum mark for this paper is 80.
- The marks for questions are shown in brackets.
- You may use a bilingual dictionary for this exam.
- You may **not** use an English dictionary.

| For Examiner's Use |      |
|--------------------|------|
| Question           | Mark |
| 1                  |      |
| 2                  |      |
| 3                  |      |
| 4                  |      |
| 5                  |      |
| <b>TOTAL</b>       |      |



## Section A – The challenge of natural hazards

Answer **all** questions in the spaces provided.

You must answer **all** questions in this section.

For the multiple-choice questions, shade the circle next to the correct answer.

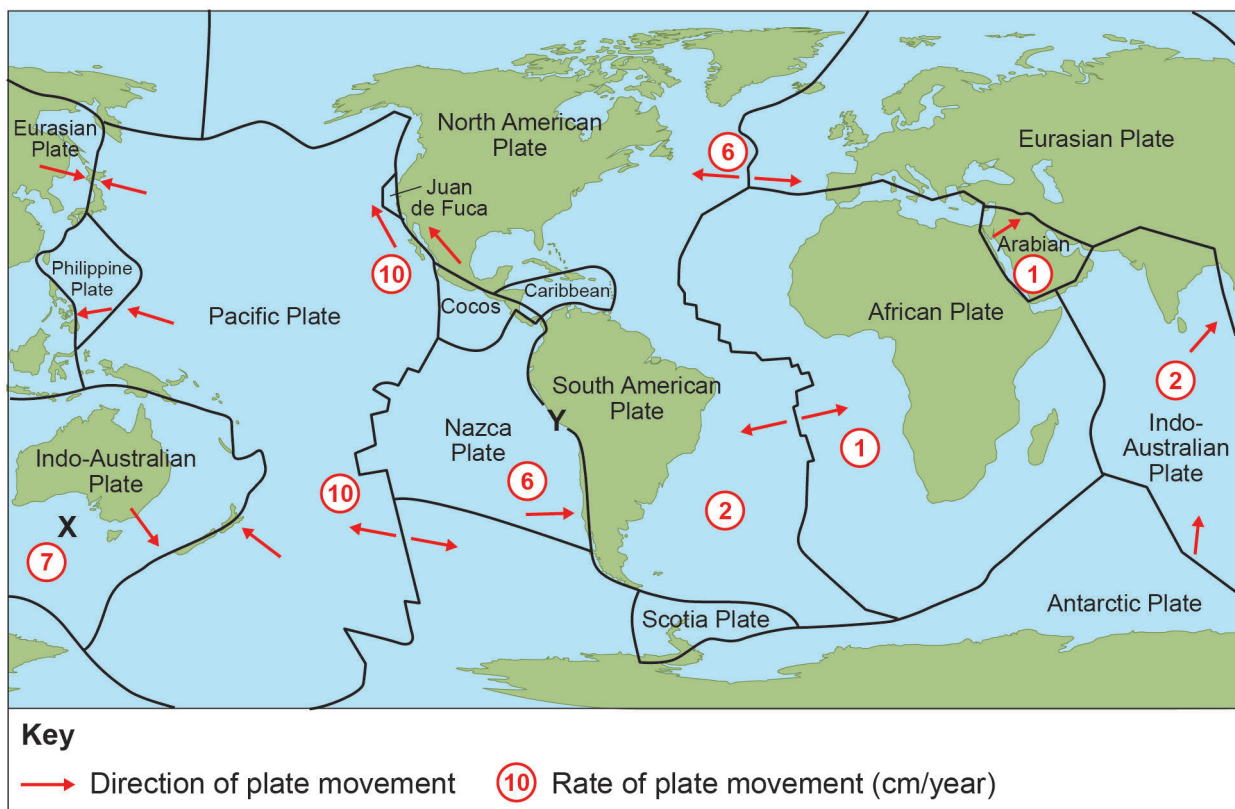
CORRECT METHOD  WRONG METHODS

If you want to change your answer you must cross out your original answer as shown.

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown.

Study **Figure 1**, a map showing the major plate margins.

**Figure 1**



**0 1 . 1** State the direction of plate movement at **X**.

**[1 mark]**



**0 1 . 2** Identify the type of plate margin at Y.

**[1 mark]**

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**0 1 . 3** The North American plate and the Eurasian plate move apart 6 cm per year.

Calculate how many years it will take for the plates to move 60 m apart.

Show your working.

**[2 marks]**

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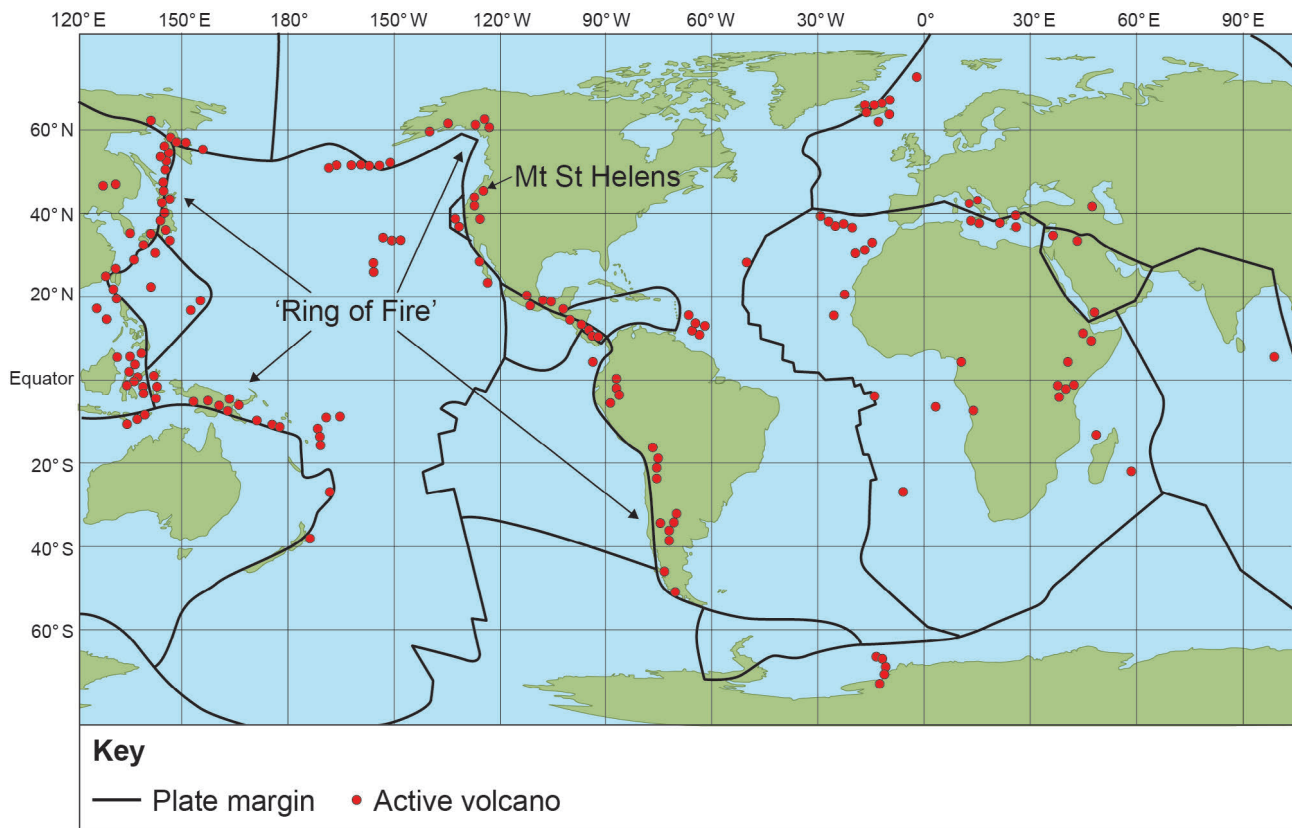
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Study **Figure 2**, a map showing global distribution of volcanoes.

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**Figure 2**



**0 1 . 4** Mt St Helens volcano is shown on **Figure 2**.

What are the latitude and longitude coordinates for this volcano?

Shade in **one** circle only.

**[1 mark]**

**A** 45° N 122° E

**B** 45° S 122° E

**C** 45° N 122° W

**D** 45° S 122° W



**0 1 . 5** Volcanoes only occur at plate margins.

To what extent do you agree with this statement?

Use evidence from **Figure 1** and **Figure 2**.

**[4 marks]**

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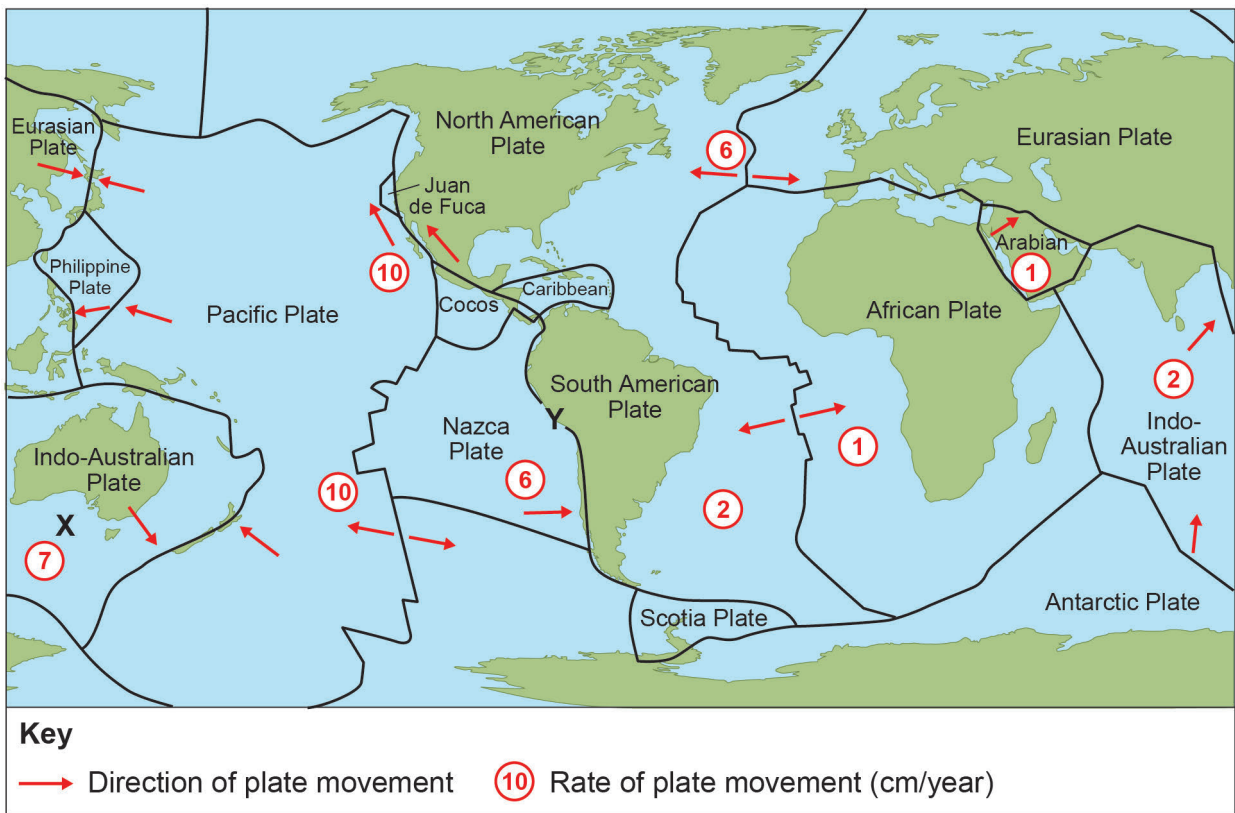


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**Figure 1 is repeated below**



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0 1 . 6

Outline why volcanoes do **not** occur at conservative plate margins.

**[2 marks]**

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Study **Figure 3**, a photograph of the eruption of Mt Agung, Bali in November 2017.

**Figure 3**



0 1 . 7

Use **Figure 3** to identify **one** likely risk to people living near the eruption.

**[1 mark]**

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Study **Figure 4**, a table showing China's energy mix in 2017 and the predicted energy mix in 2040.

**Figure 4**

| Energy source                  | 2017 (%) | 2040 (%) |
|--------------------------------|----------|----------|
| Oil                            | 20       | 17       |
| Gas                            | 7        | 14       |
| Coal                           | 60       | 35       |
| Nuclear                        | 2        | 7        |
| Hydro                          | 8        | 9        |
| Renewables, including biofuels | 3        | 18       |

**0 1 . 9** Calculate the predicted percentage change in China's use of coal shown in **Figure 4**.  
[1 mark]

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**0 1 . 1 0** Outline changes to China's energy mix shown in **Figure 4**.  
[2 marks]

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**30**

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**Section B – The Living World**Answer **all** questions in the spaces provided.You must answer **all** questions in this section.**0 2 . 1** Which **one** of these is a producer in an ecosystem?Shade in **one** circle only.**[1 mark]****A** Bird**B** Reptile**C** Tree**D** Insect**0 2 . 2** Explain how a food chain is different from a food web.**[2 marks]**

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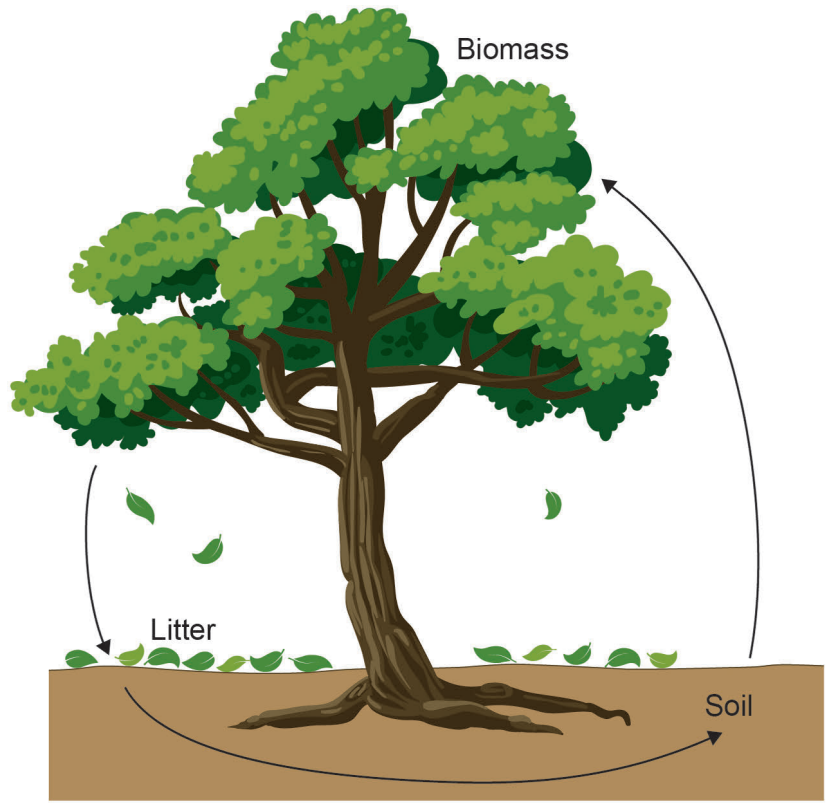
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Study **Figure 6**, a diagram showing a nutrient cycle.

**Figure 6**



0 2 . 3

Use **Figure 6** to state **two** different facts about nutrient cycling.

**[2 marks]**

1 \_\_\_\_\_

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0 2 . 4

Outline what is meant by desertification.

**[2 marks]**

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Study **Figure 7**, a photograph of a cattle herd in Niger.

**Figure 7**



**0 2 . 5** Suggest how overgrazing can lead to desertification.

Use **Figure 7** and your own understanding.

**[4 marks]**

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**Section C – Physical landscapes****Coastal landscapes**

Answer **all** questions in the spaces provided.

**0 3 . 1** Outline the process of abrasion.

**[2 marks]**

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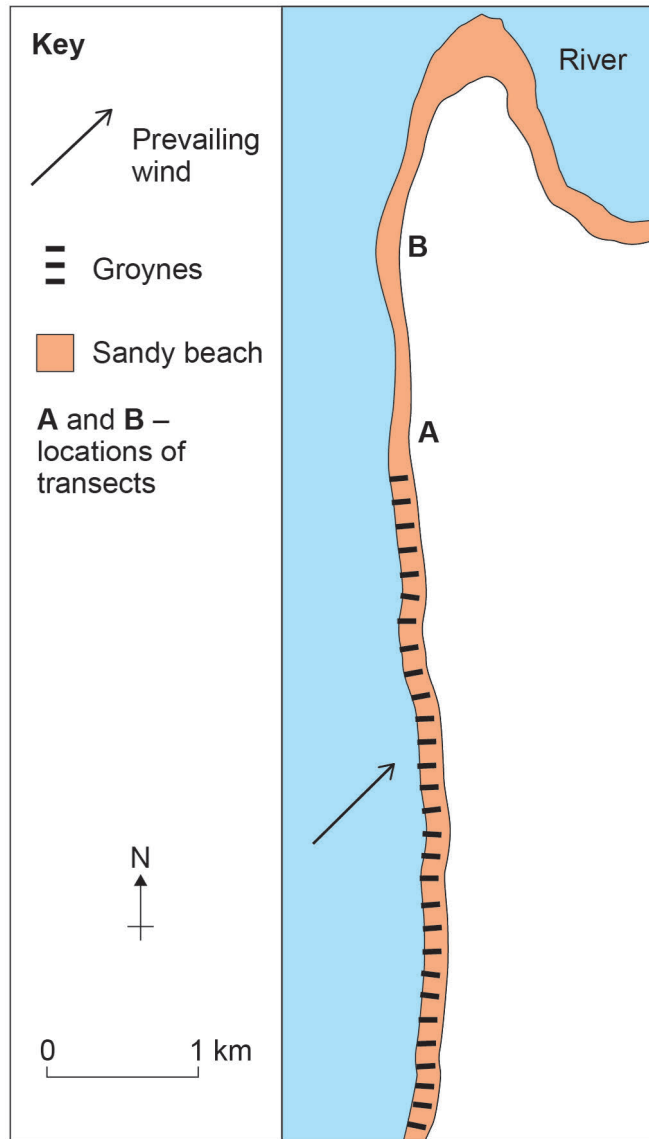
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Study **Figure 9**, a sketch map showing a coastline formed by deposition and a table about sediment size.

**Figure 9**



| Distance from sandy beach (m) | Transect A<br>Sediment size<br>Long axis (cm) | Transect B<br>Sediment size<br>Long axis (cm) |
|-------------------------------|---|---|
| 2                             | 10.65   | 6.15  |
| 20                            | 8.47  | 7.68  |
| 25                            | 9.52  | 7.19  |
| 40                            | 16.70   | 10.40   |
| <b>Mean</b>                   | <b>11.33</b>                                  | <b>7.86</b>                                   |
| <b>Range</b>                  | <b>8.23</b>                                   |   |



**0 3 . 2** Complete the table by calculating the range of sediment size at Transect **B**. **[1 mark]**

**0 3 . 3** Contrast the sediment size at Transect **A** with that further north at Transect **B**. **[2 marks]**

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**0 3 . 4** Explain the role of deposition in the formation of a split.  
Use **Figure 9** and your own understanding. **[4 marks]**

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**Section D – Physical landscapes****Hot desert landscapes or River landscapes**

Answer **all** questions in the spaces provided.

You must answer **one** question from this section, **either** Question 4 **or** Question 5.

**Question 4 Hot desert landscapes**

**0 4 . 1** Draw a line to join the correct definition to the transportation process.

**[2 marks]**

**Transportation process****Definition**

Saltation

Rolling of pebbles on the ground

Surface creep

Fine material carried in the air

Suspension

Hopping movement of sand

Study **Figure 10**, a photograph showing sand dunes in a hot desert landscape.

**Figure 10**





0 4 . 2

Identify the features of the sand dunes labelled at **X**, **Y** and **Z** in **Figure 10**.

[3 marks]

**X** \_\_\_\_\_

**Y** \_\_\_\_\_

**Z** \_\_\_\_\_

0 4 . 3

Explain the role of the wind in the formation of sand dunes in a hot desert landscape.

Use **Figure 10** and your own understanding.

[4 marks]

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**Question 5 River landscapes**

**0 5 . 1** Draw a line to join the correct definition to the transportation process.

**[2 marks]****Transportation process****Definition**

Saltation

Rolling of pebbles on the riverbed

Traction

Fine material carried in the water

Suspension

Hopping movement of sediment on the riverbed

Study **Figure 12**, a photograph showing some river landforms.

**Figure 12**

**0 5 . 2** Identify the features of the river landscape labelled at **X**, **Y** and **Z** in **Figure 12**.  
**[3 marks]**

**X** \_\_\_\_\_

**Y** \_\_\_\_\_

**Z** \_\_\_\_\_

**0 5 . 3** Explain the role of erosion and deposition in the formation of meanders.  
Use **Figure 12** and your own understanding.  
**[4 marks]**

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