



National
Qualifications
2023 MODIFIED

X833/75/11

Geography

TUESDAY, 25 APRIL

1:00 PM – 3:05 PM

Total marks — 70

SECTION 1 — PHYSICAL ENVIRONMENTS — 30 marks

Attempt **EITHER** question 1 **OR** question 2

THEN attempt questions 3 to 7.

SECTION 2 — HUMAN ENVIRONMENTS — 30 marks

Attempt **ALL** questions.

SECTION 3 — GLOBAL ISSUES — 10 marks

Attempt any **ONE** of the following.

Question 11 — Climate change

Question 12 — Natural regions

Question 13 — Environmental hazards

Question 14 — Trade and globalisation

Question 15 — Tourism

Question 16 — Health

You will receive credit for appropriately labelled sketch maps and diagrams.

Write your answers clearly in the answer booklet provided. In the answer booklet you must clearly identify the question number you are attempting.

Use **blue** or **black** ink.

Before leaving the examination room you must give your answer booklet to the Invigilator; if you do not, you may lose all the marks for this paper.



* X 8 3 3 7 5 1 1 *

SECTION 1 — PHYSICAL ENVIRONMENTS — 30 marks

Attempt EITHER question 1 OR question 2

THEN questions 3 to 7

Question 1 — Glaciated landscapes/coastal landscapes

- (a) Study the Ordnance Survey Map Extract (Item A) of the Portree area.

Match these glaciated upland features with the correct grid references.

Features: **pyramidal peak** **U-shaped valley** **arete**

Choose from grid references: **453388** **486514** **388393** **495541**

3

Diagram Q1 Sand bar at the Long Ayre, Tankerness, Orkney



- (b) Look at Diagram Q1.

Explain the formation of a sand bar.

You may use a diagram(s) in your answer.

4

Now attempt Questions 3 to 7

Do not attempt Question 2 if you have already answered Question 1

Question 2 — Rivers and valleys/upland limestone landscapes

- (a) Study the Ordnance Survey Map Extract (Item A) of the Portree area.

Match these river features with the correct grid references.

Features: meander v shaped valley waterfall

Choose from grid references: 474384 445437 405423 425481

3

Diagram Q2 Limestone pavement at Malham



- (b) Look at Diagram Q2.

Explain the formation of a limestone pavement.

You may use a diagram(s) in your answer.

4

Now attempt Questions 3 to 7

[Turn over

Question 3

Diagram Q3A Location of cross-section

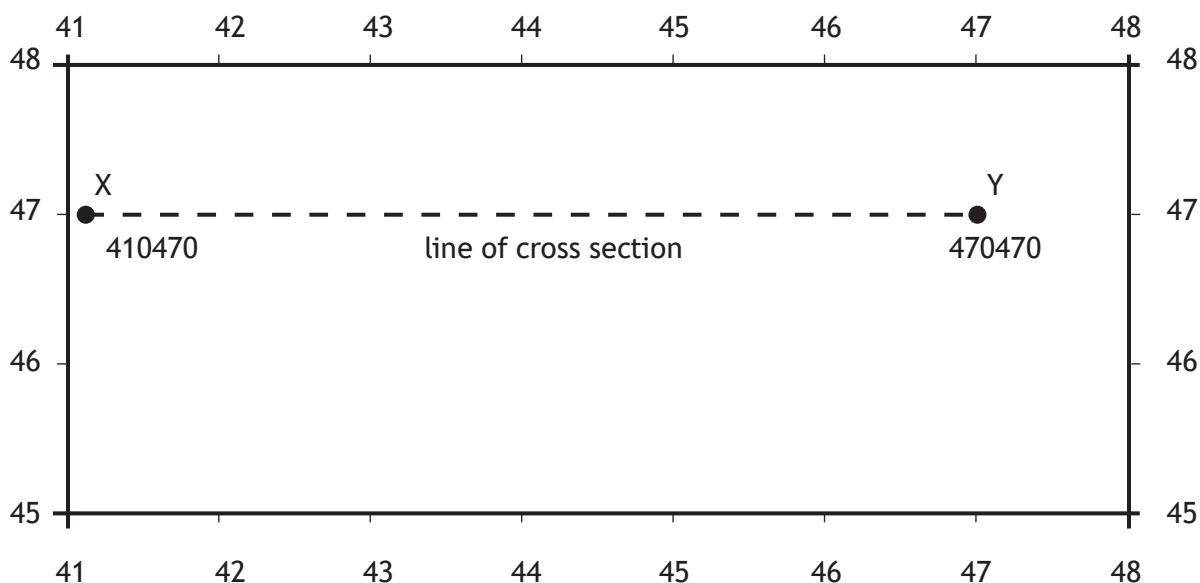
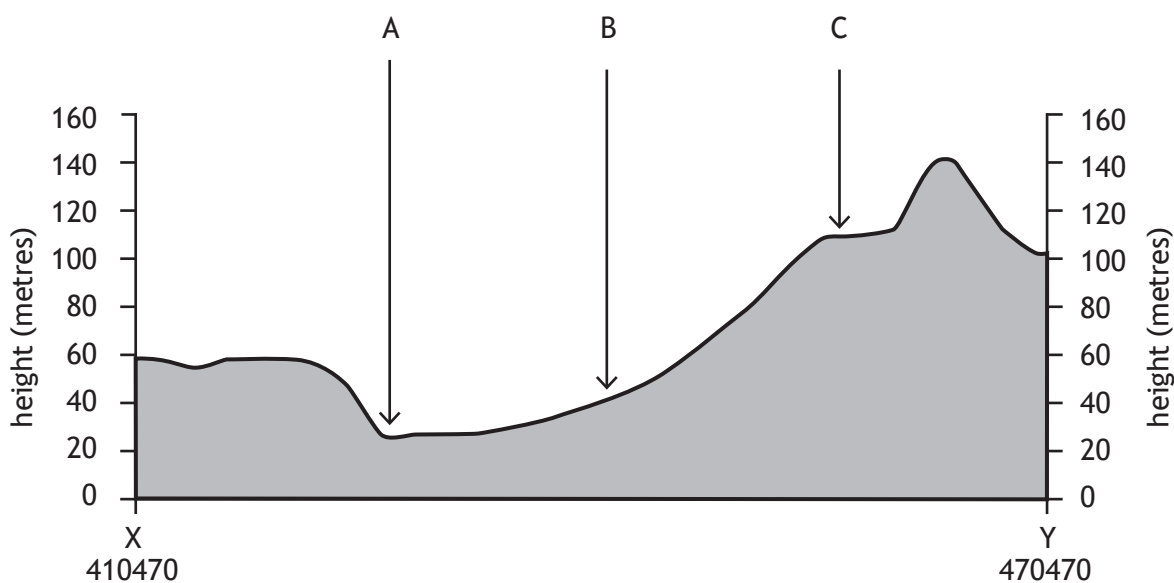


Diagram Q3B Cross-section from GR 410470 to GR 470470



Study Diagrams Q3A, Q3B and the Ordnance Survey map extract (Item A) of the Portree area.

Match the letters A, B and C with the correct features.

Choose from the features below:

- River Footpath A87 Forestry

3

Question 4

Diagram Q4 Land uses in Skye



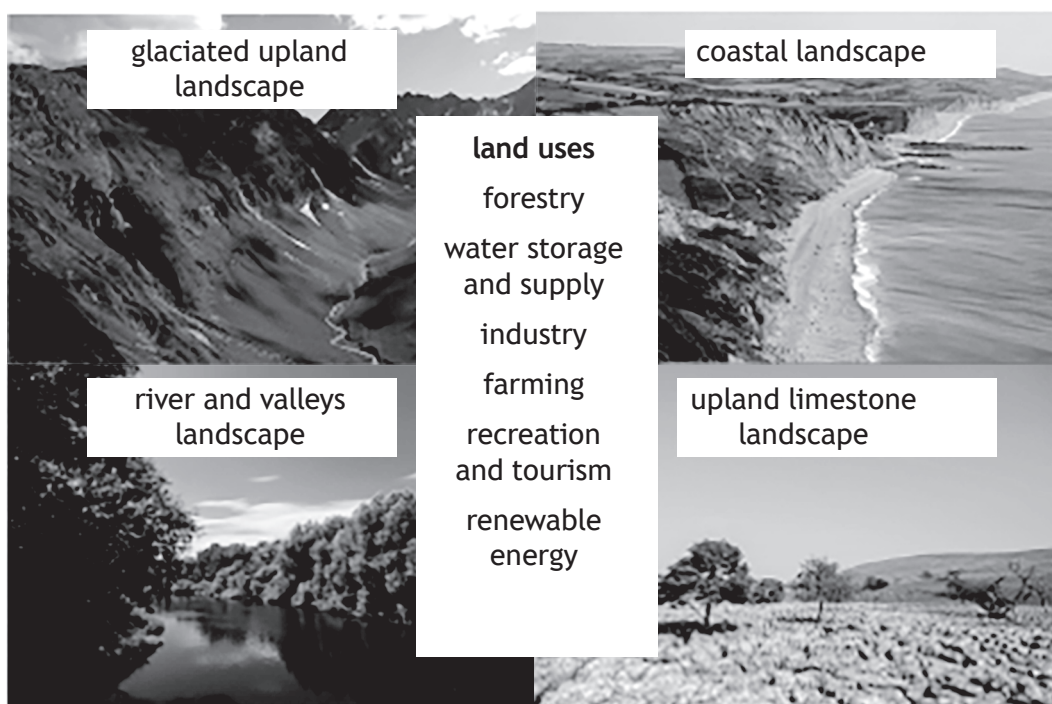
Study Diagram Q4 and the Ordnance Survey map extract (Item A) of the Portree area.
Choose **two** different land uses shown in Diagram Q4.
Using map evidence, **explain** how the area shown on the map extract is suitable for
your **two** chosen land uses.

5

[Turn over

Question 5

Diagram Q5 Selected land uses



Look at Diagram Q5.

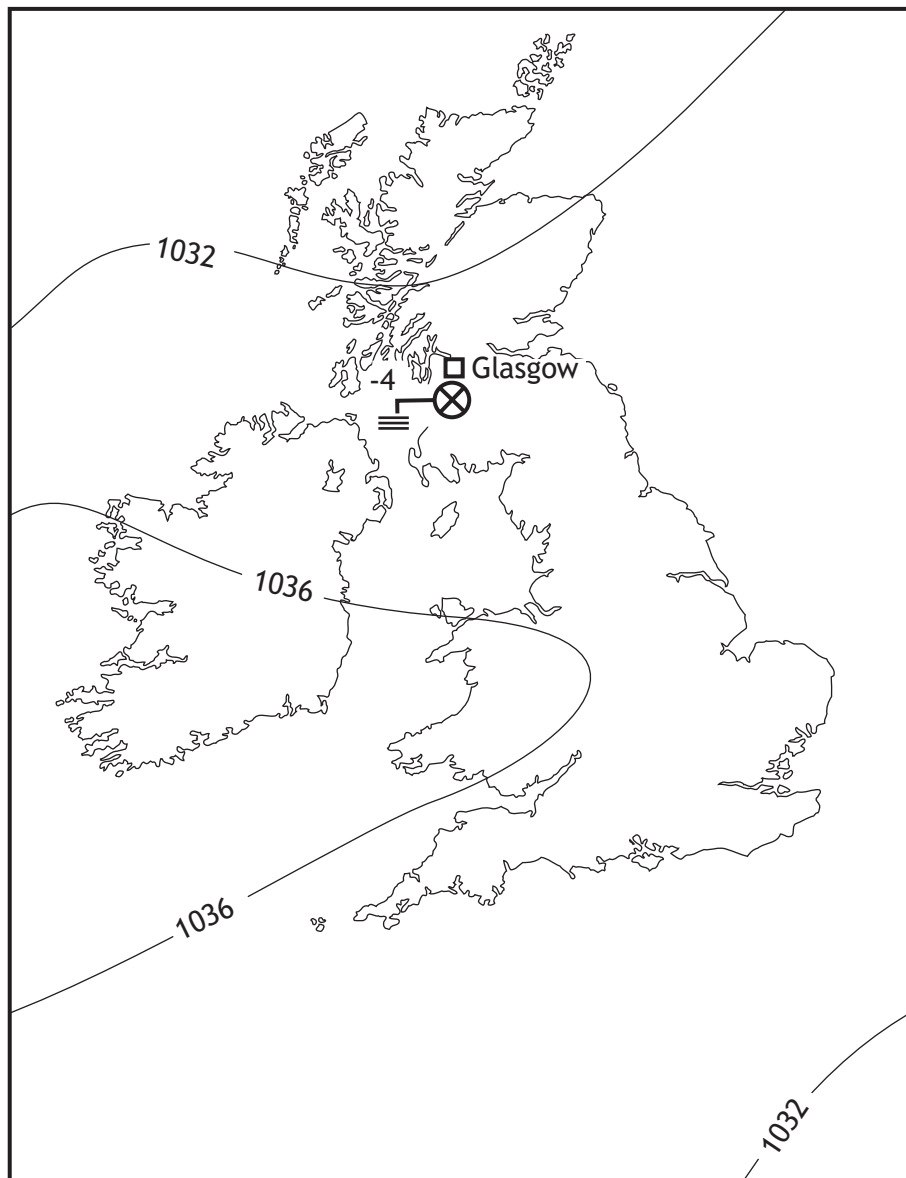
Choose one landscape type from Diagram Q5.

For a named area you have studied, **explain** why land use conflicts occur there.

5

Question 6

Diagram Q6 Synoptic chart for 06:00 on 9 December 2021



Study Diagram Q6 above.

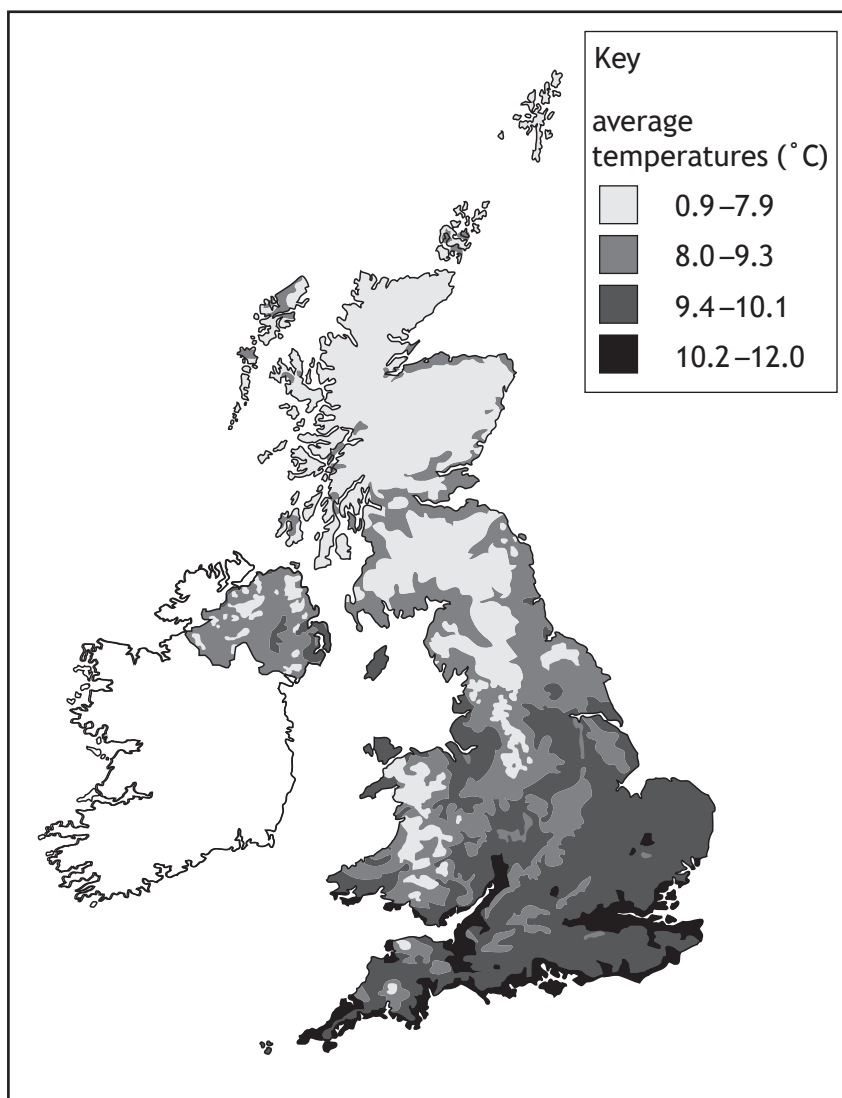
Explain the weather conditions experienced in Glasgow at 06:00 on 9 December 2021.

5

[Turn over

Question 7

Diagram Q7 UK average temperatures (January to March)



Look at Diagram Q7.

Explain the factors which affect average UK temperatures.

You may refer to factors such as latitude, relief, aspect and distance from the sea in your answer.

5

[Turn over for next question]

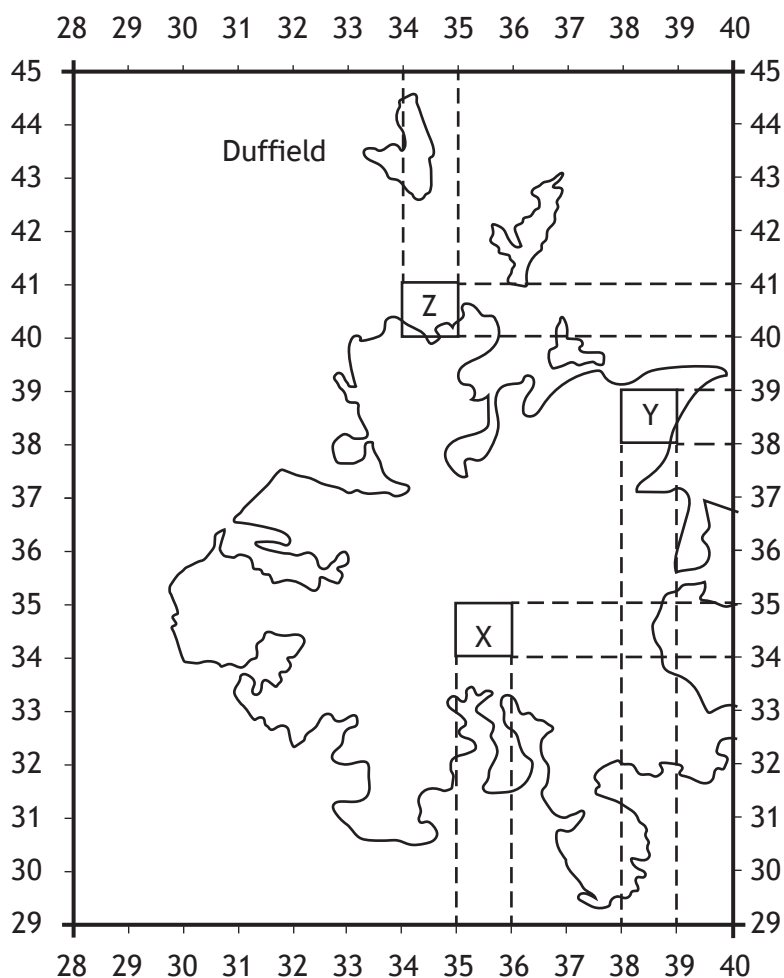
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SECTION 2 — HUMAN ENVIRONMENTS — 30 marks

Attempt ALL questions

Question 8

Diagram Q8A Sketch map of the Derby area



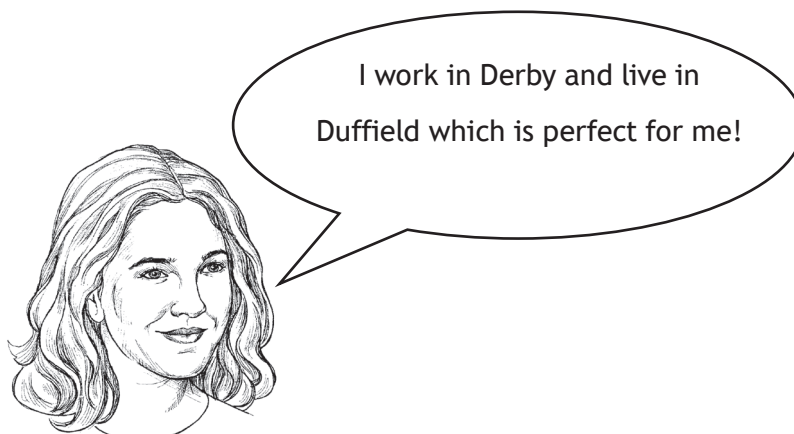
- (a) Study the Ordnance Survey map extract (Item B) of the Derby area and Diagram Q8A.

Using map evidence **describe, in detail**, the differences in the urban environments between Area X (3534) and Area Y (3838).

5

Question 8 (continued)

Diagram Q8B Quote from Angela, Duffield Resident



- (b) Study the Ordnance Survey map extract (Item B) of the Derby area and look at Diagrams Q8A and Q8B.

Explain why Duffield is a popular place for people to live.

Use map evidence to support your answer.

4

Diagram Q8C Planning proposal for new hotel

Proposed luxury HOTEL at ALLESTREE PARK

- 80 bedrooms, 3 Restaurants, 2 bars,
Conference suite, Gym, Leisure and Spa
facilities, Parking, Mini-Golf, Children's playground,
Gardens.

- (c) Study the Ordnance Survey map extract (Item B) of the Derby area and look at Diagrams Q8A and Q8C.

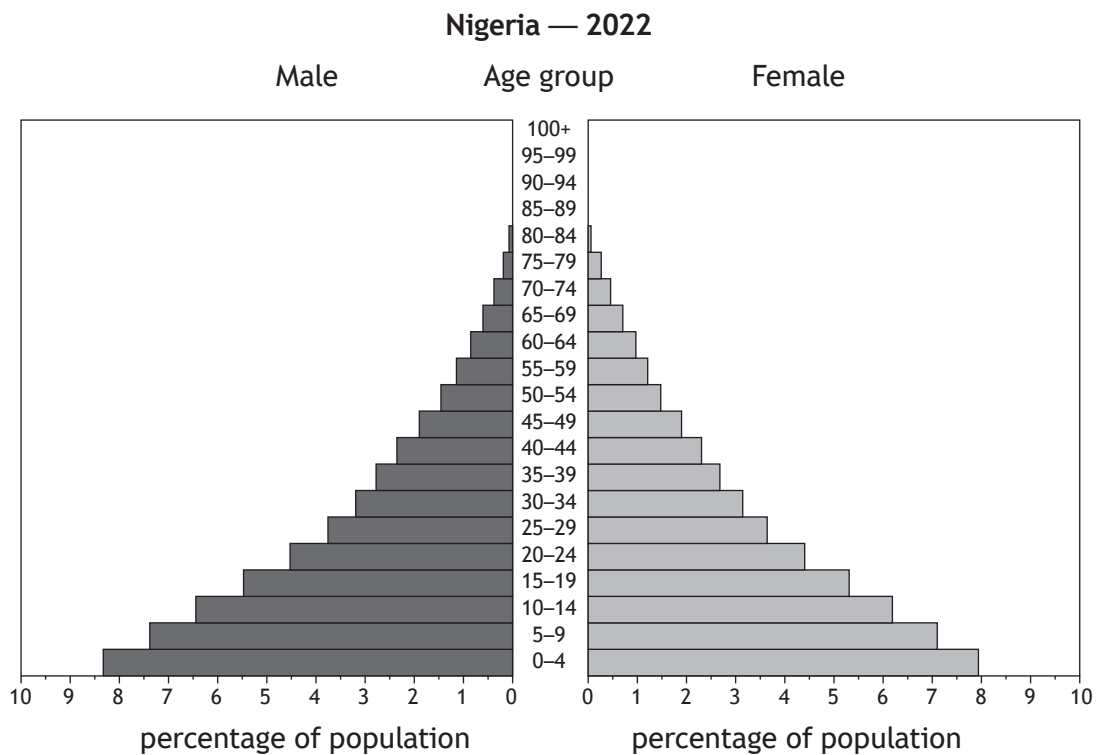
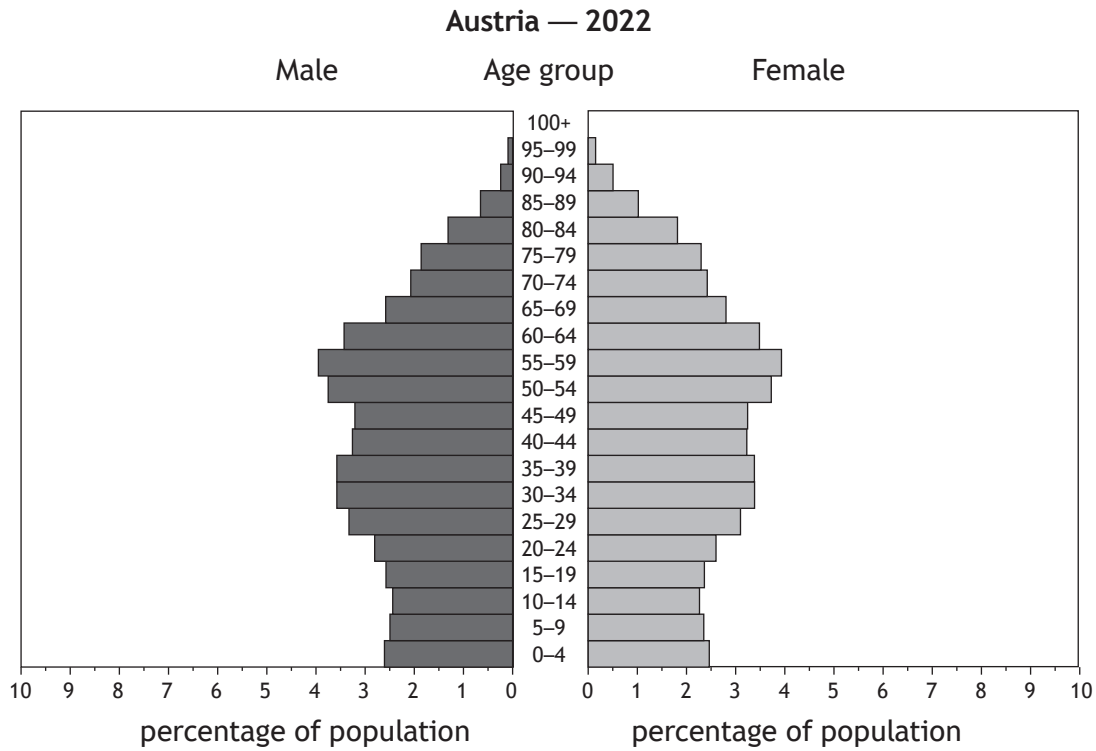
There is a proposal to build a new hotel in grid square 3440 (Area Z on Diagram Q8A).

Using map evidence, **explain** the advantages and disadvantages of building a hotel here.

5

[Turn over

Diagram Q9A Population pyramids for Austria and Nigeria (2022)



(a) Study Diagram Q9A

Give reasons for the differences between the population structures of Austria and Nigeria.

You should refer to both birth rates and death rates in your answer.

6

Question 9 (continued)

Diagram Q9B Elderly people road sign



(b) Look at Diagram Q9B.

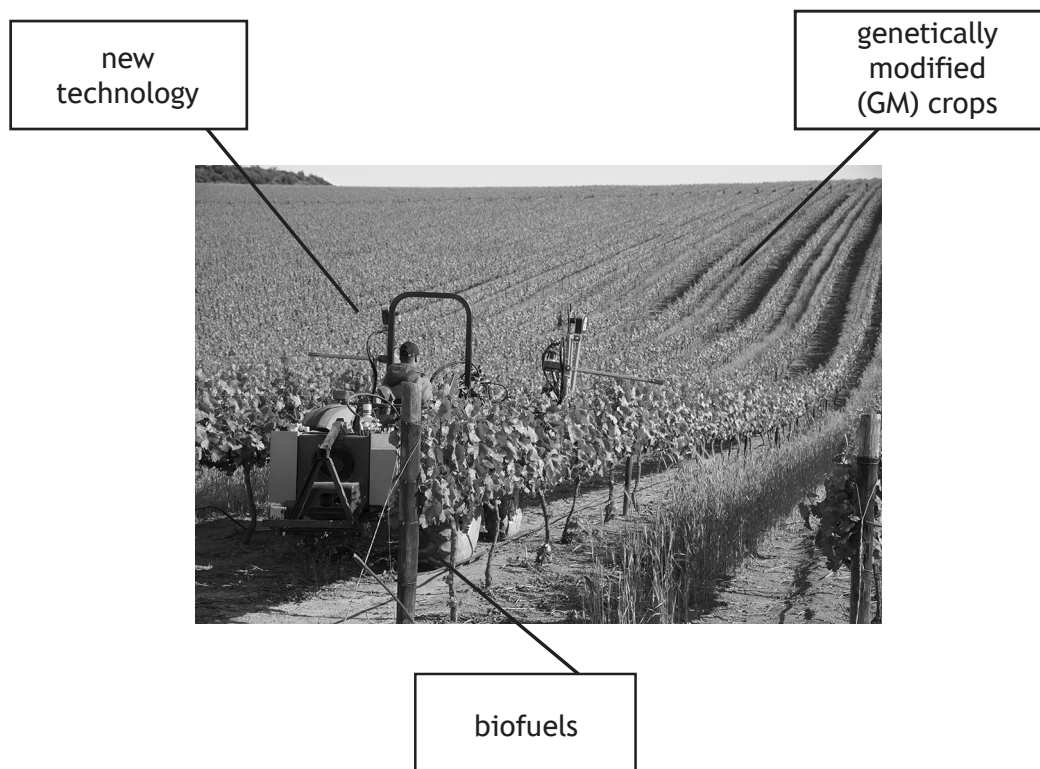
Give reasons for falling worldwide death rates.

4

[Turn over

Question 10

Diagram Q10 Recent changes in farming in developing countries



Look at Diagram Q10.

Explain the benefits and problems which recent changes in farming have brought to developing countries.

6

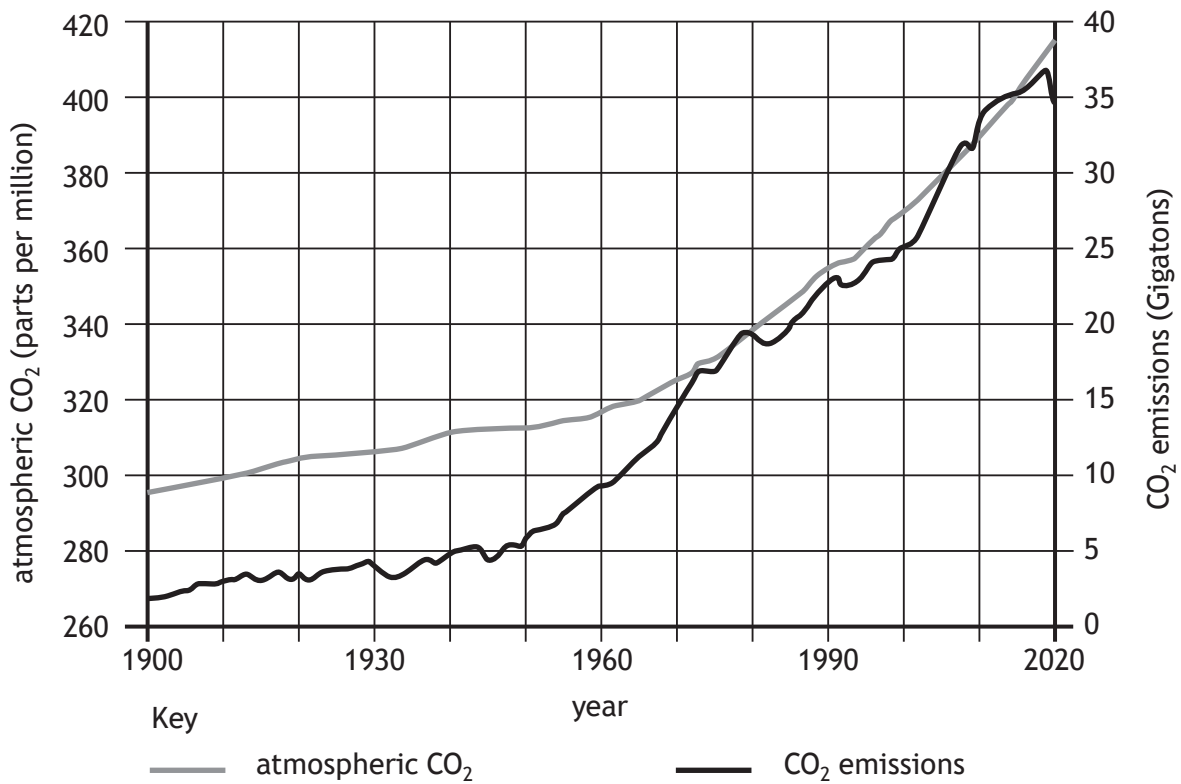
SECTION 3 — GLOBAL ISSUES — 10 marks

Attempt any ONE question

Question 11 — Climate change	<i>page 16</i>
Question 12 — Natural regions	<i>page 17</i>
Question 13 — Environmental hazards	<i>page 18</i>
Question 14 — Trade and globalisation	<i>page 19</i>
Question 15 — Tourism	<i>page 20</i>
Question 16 — Health	<i>page 22</i>

Question 11 — Climate change

Diagram Q11 Atmospheric carbon dioxide (CO₂) and global CO₂ emissions 1900–2020

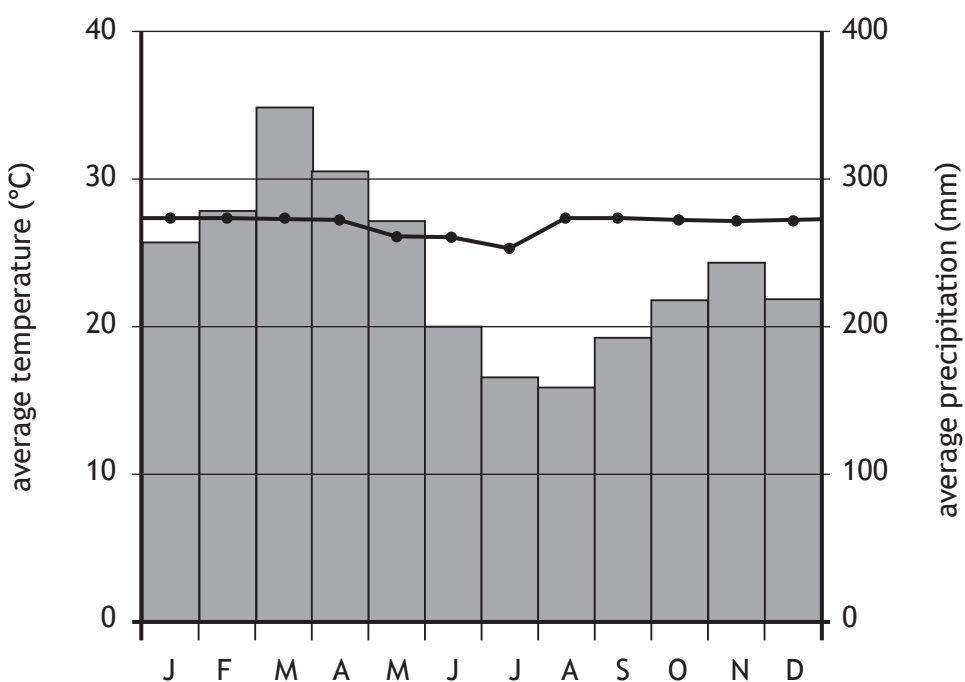


Study Diagram Q11.

- (a) Describe, in detail, the changes in atmospheric carbon dioxide and global CO₂ emissions between 1900 and 2020. 4
- (b) Explain the ways in which climate change can be managed. 6

Question 12 — Natural Regions

Diagram Q12A Climate graph for Iquitos, Peru



(a) Study Diagram Q12A.

Describe, in detail, the climate graph for Iquitos in Peru.

4

Diagram Q12B Tundra in the Jotunheimen Mountains, Norway



(b) Look at Diagram Q12B.

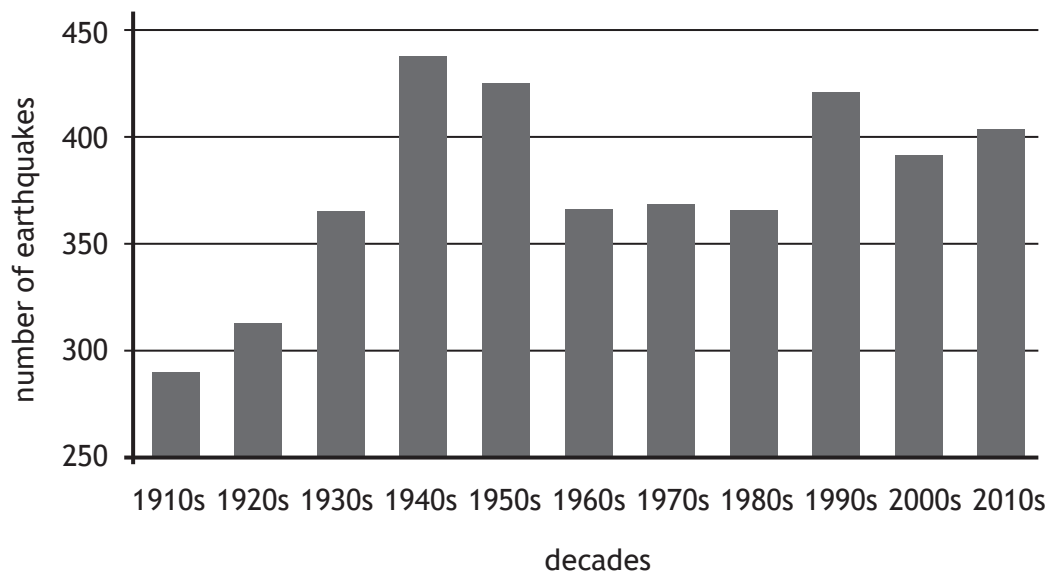
Explain the different ways in which the world's tundra regions are being used and misused.

6

[Turn over

Question 13 — Environmental hazards

Diagram Q13A Number of earthquakes greater than magnitude 6.5 (1910s–2010s)

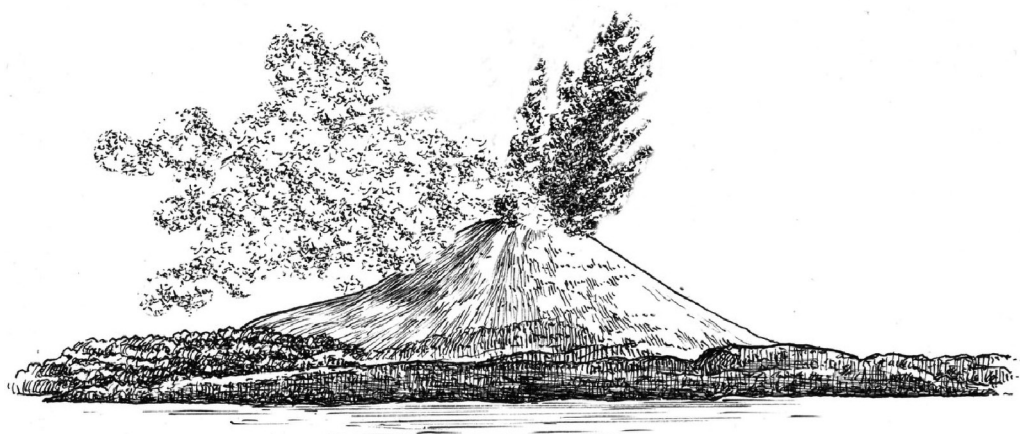


(a) Study Diagram Q13A.

Describe, in detail, the changes in the number of earthquakes greater than magnitude 6.5 over the decades.

4

Diagram Q13B Volcanic eruption at Anak Krakatoa, December 2018



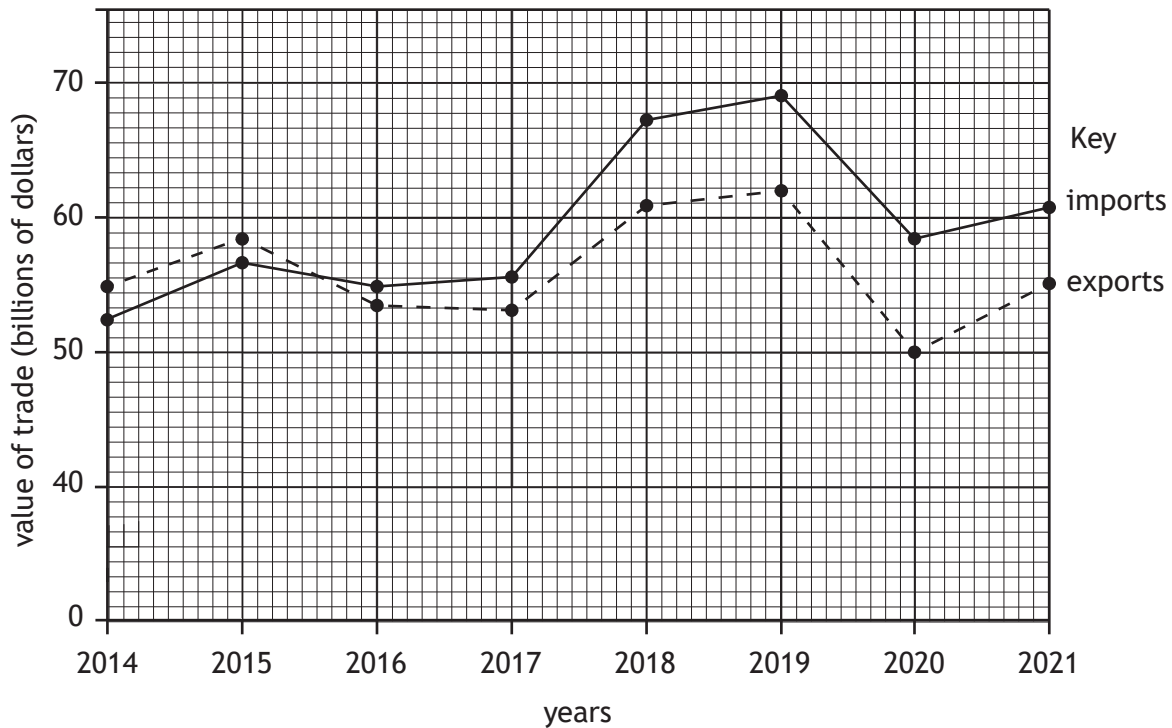
Anak Krakatoa which used to stand 338 metres high is now just 110 metres tall.

(b) Look at Diagram Q13B.

For a named volcanic eruption you have studied, explain its impact on the people and the landscape.

6

Diagram Q14A UK trade pattern with USA (2014–2021)



(a) Study Diagram Q14A.

Describe, in detail, the pattern of UK trade with USA between 2014 and 2021.

4

Diagram Q14B Fair trade



(b) Study Diagram Q14B.

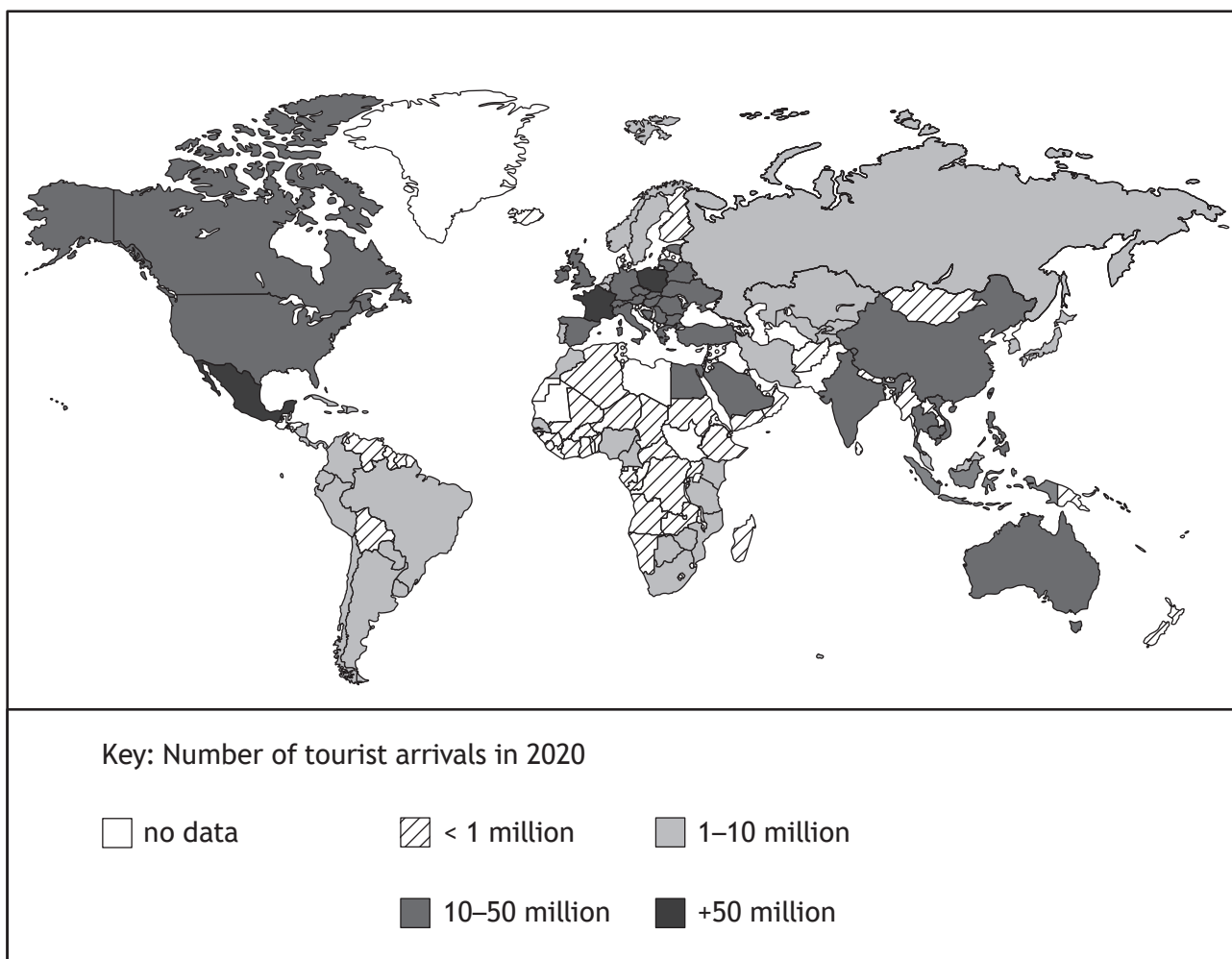
Referring to an area(s) you have studied, explain how Fair Trade can impact people and the environment of developing countries.

6

[Turn over

Question 15 — Tourism

Diagram Q15A International tourist arrivals 2020



(a) Study Diagram Q15A.

Describe, in detail, the number of international tourist arrivals in 2020.

4

Question 15 (continued)

Diagram Q15B Tourists in Tallinn, Estonia.



(b) Look at Diagram Q15B.

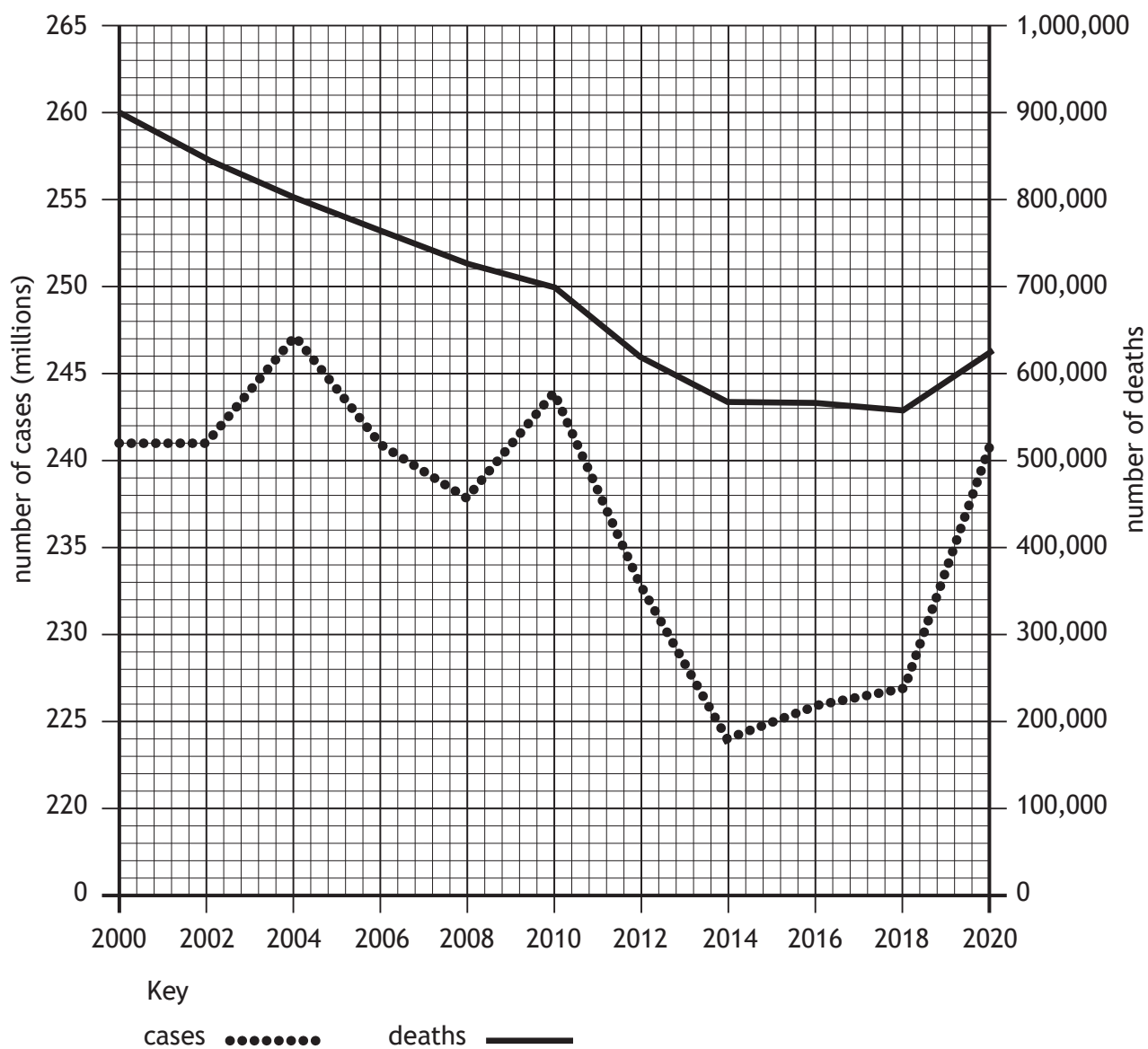
Give reasons for the increase in mass tourism in recent years.

6

[Turn over

Question 16 — Health

Diagram Q16A Global malaria cases and deaths (2000–2020)

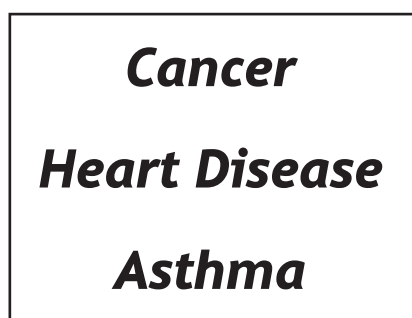


(a) Study Diagram Q16A.

Describe, in detail, the number of cases of malaria **and** the number of deaths from malaria between 2000 and 2020.

Question 16 (continued)

Diagram Q16B Selected developed world diseases



(b) Look at Diagram Q16B.

Choose **one** disease from Diagram Q16B above.

For the disease you have chosen, **explain** the methods used to control it.

6

[END OF QUESTION PAPER]

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Diagram Q5 Martin Kemp/Shutterstock.com
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