



National  
Qualifications  
2019

**X833/76/11**

**Geography  
Physical and Human  
Environments**

TUESDAY, 28 MAY

9:00 AM – 10:50 AM

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**Total marks — 100**

**SECTION 1 — PHYSICAL ENVIRONMENTS — 50 marks**

Attempt ALL questions.

**SECTION 2 — HUMAN ENVIRONMENTS — 50 marks**

Attempt ALL questions.

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.



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**SECTION 1 — PHYSICAL ENVIRONMENTS — 50 marks****Attempt ALL questions****Question 1****Diagram Q1 Corrie with tarn**

Look at Diagram Q1.

Explain the formation of a corrie.

**8**

You may wish to use an annotated diagram or diagrams in your answer.

**Question 2****Diagram Q2 Sand spit**

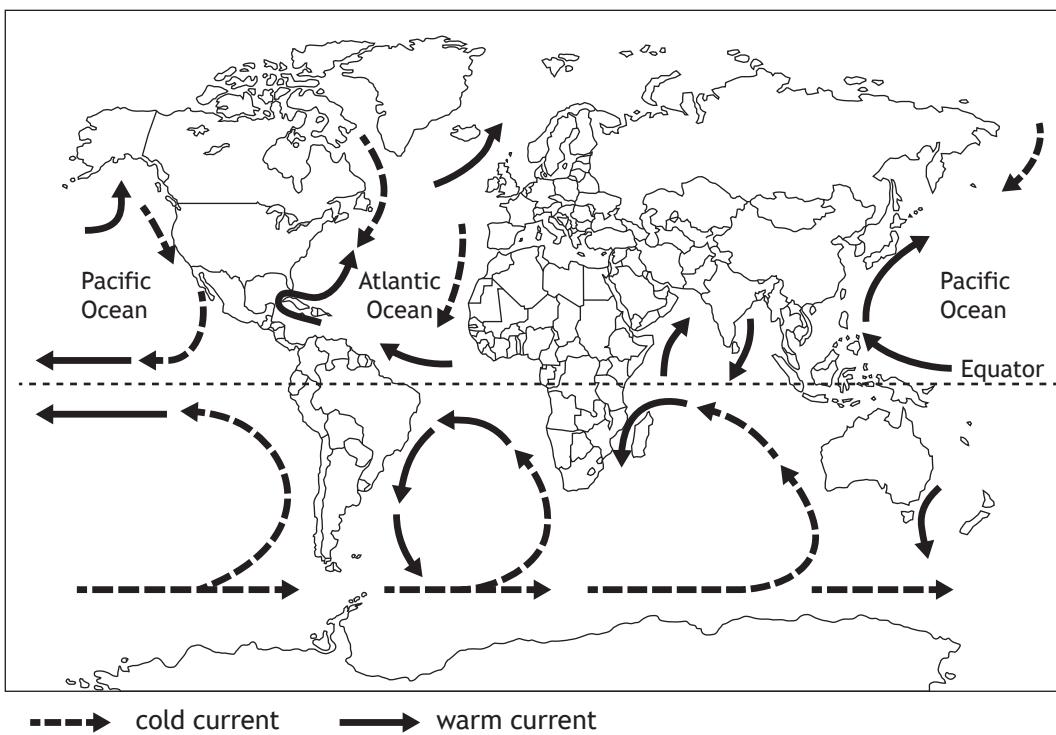
Look at Diagram Q2.

**Explain the formation of a sand spit.**

8

You may wish to use an annotated diagram or diagrams in your answer.

[Turn over

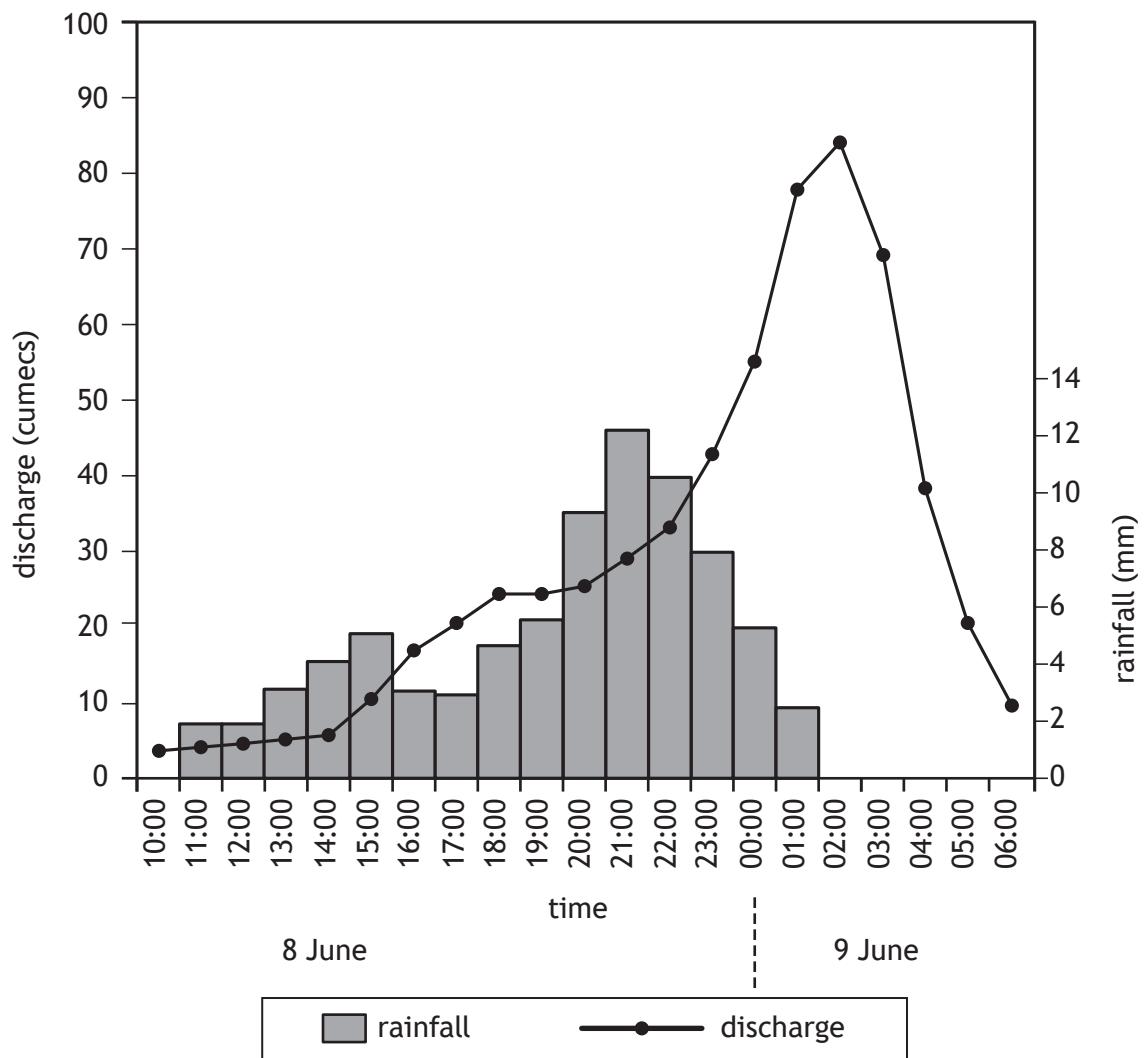
**Question 3****Diagram Q3 Selected ocean currents**

----- cold current      → warm current

**Study Diagram Q3.**

- Describe the pattern of ocean currents for either the Pacific Ocean or the Atlantic Ocean and
- explain how ocean currents redistribute energy around the globe.

**8**

**Question 4****Diagram Q4** Flood hydrograph for the River Leri, West Wales, 8<sup>th</sup> and 9<sup>th</sup> June 2012

Study Diagram Q4.

For the River Leri on 8<sup>th</sup> and 9<sup>th</sup> of June

- (a) describe the changes in discharge level and
- (b) suggest reasons why these changes may have occurred.

10

[Turn over

**Question 5****Diagram Q5 High Force waterfall in County Durham**

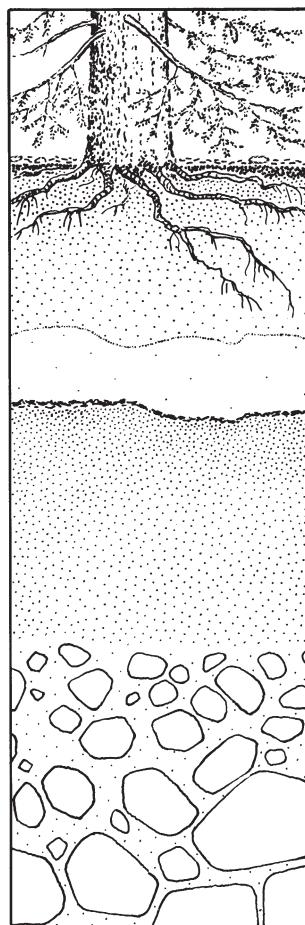
Look at Diagram Q5.

Waterfalls are commonly found in the upper course of rivers.

**Explain the formation of a waterfall.**

**8**

You may wish to use an annotated diagram or diagrams in your answer.

**Question 6****Diagram Q6** Podzol soil profile

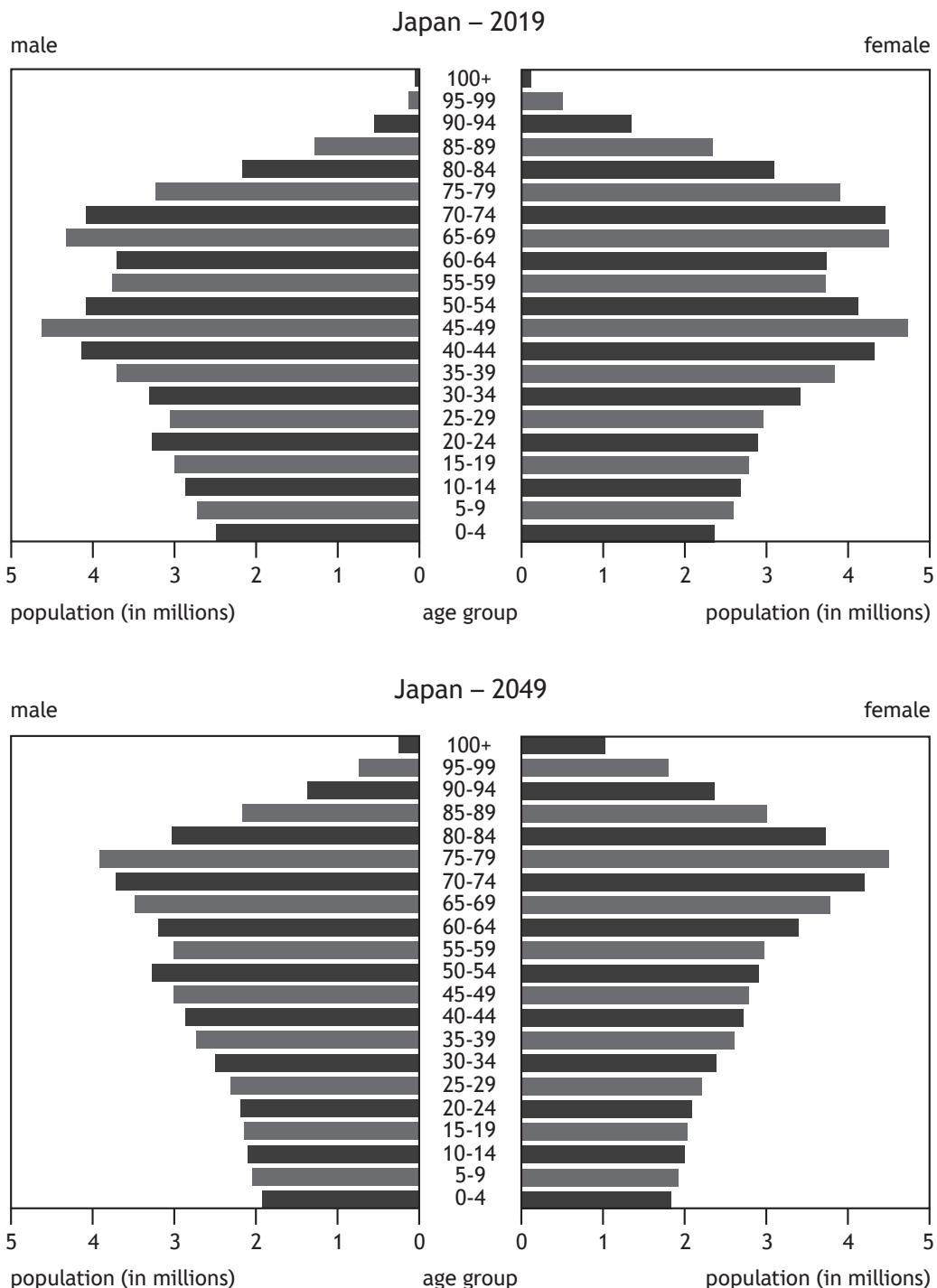
Look at Diagram Q6.

Explain the main conditions **and** processes involved in the formation of a podzol soil.

8

[Turn over

Attempt ALL questions

**Question 7****Diagram Q7 Population pyramids for Japan 2019 and 2049 (projected)****Study Diagram Q7.**

Japan's population structure is projected to change in the next 30 years.

**Discuss the possible consequences of these changes.**

**Question 8**

Discuss different methods used by countries to collect population data.

6

**Question 9**

Rural land degradation has many impacts on people and the environment.

Explain the impacts of rural land degradation on a semi-arid or rainforest area you have studied.

8

**Question 10**

Rural areas have a number of competing land uses which can create conflict.

Referring to a glaciated or coastal area you have studied, discuss the conflicts caused by the various land uses.

12

[Turn over

**Question 11**

'Newcastle City Council has announced plans to invest millions of pounds to improve housing in Newcastle by 2021'.

**Explain** the strategies used to manage housing problems in a **developed** world city you have studied.

8

**Question 12****Diagram Q12 Traffic in Mumbai**

sladkozapponi/shutterstock.com

Look at Diagram Q12.

For a **developing** world city you have studied, **discuss** the management strategies used to reduce traffic issues.

7

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Diagram Q1 Peter Turner Photography/Shutterstock.com

Diagram Q2 Image of 'Spurn Point' by Ben George is taken from [www.bengeorgephotography.co.uk](http://www.bengeorgephotography.co.uk). Reproduced by kind permission of Ben George Aerial Photography.

Diagram Q5 Carole MacDonald/Shutterstock.com

Diagram Q12 sladkozaponi/Shutterstock.com



National  
Qualifications  
2019

**X833/76/12**

**Geography  
Global Issues and  
Geographical Skills**

TUESDAY, 28 MAY

11:20 AM – 12:30 PM

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Total marks — 60

**SECTION 1 — GLOBAL ISSUES — 40 marks**

Attempt **TWO** questions.

**SECTION 2 — APPLICATION OF GEOGRAPHICAL SKILLS — 20 marks**

Attempt the question.

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.

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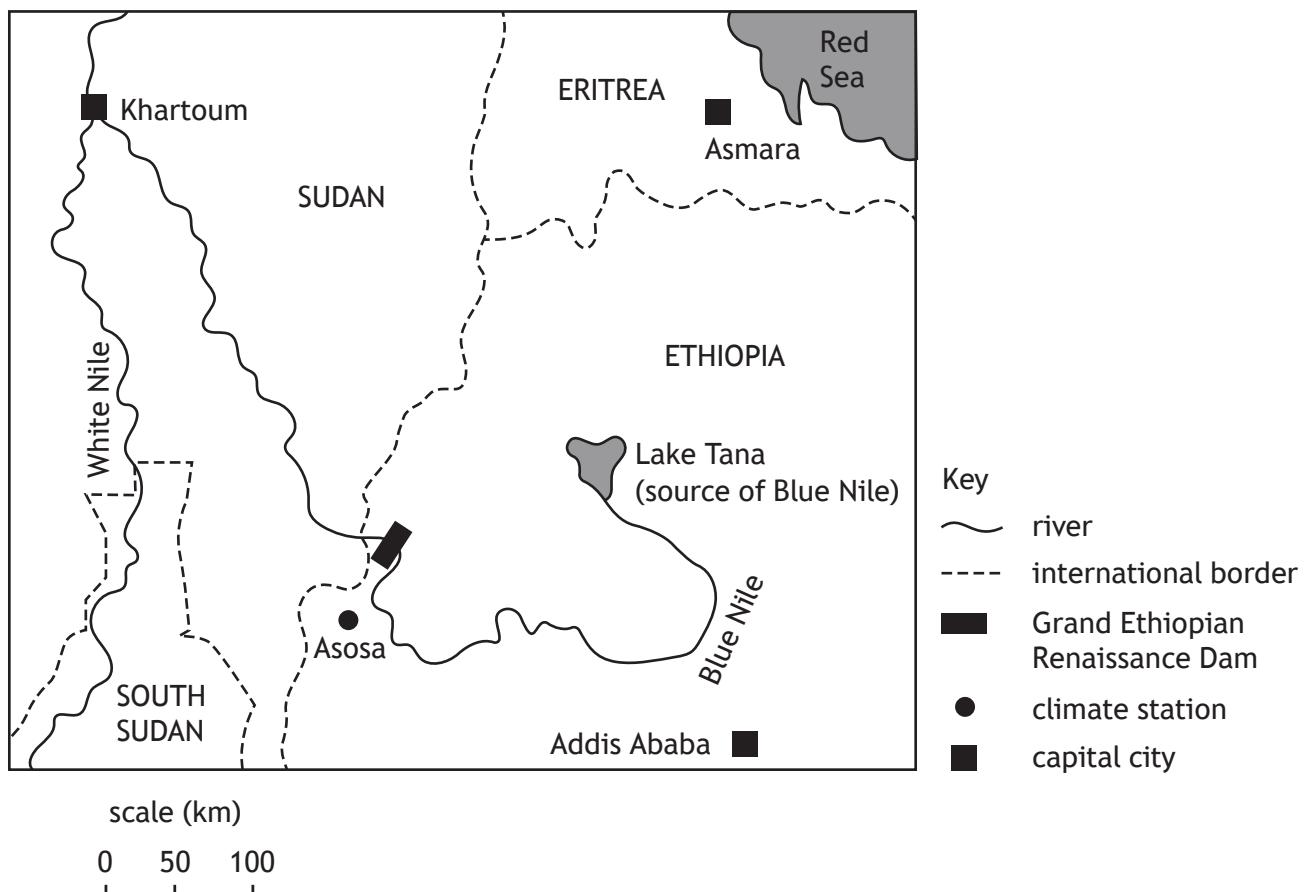
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**SECTION 1 — GLOBAL ISSUES — 40 marks**

**Attempt TWO questions**

**Question 1 — River basin management**

**Diagram Q1A Blue Nile Basin and location of the Grand Ethiopian Renaissance Dam**



**Diagram Q1B Blue Nile average monthly flow, near site of dam**

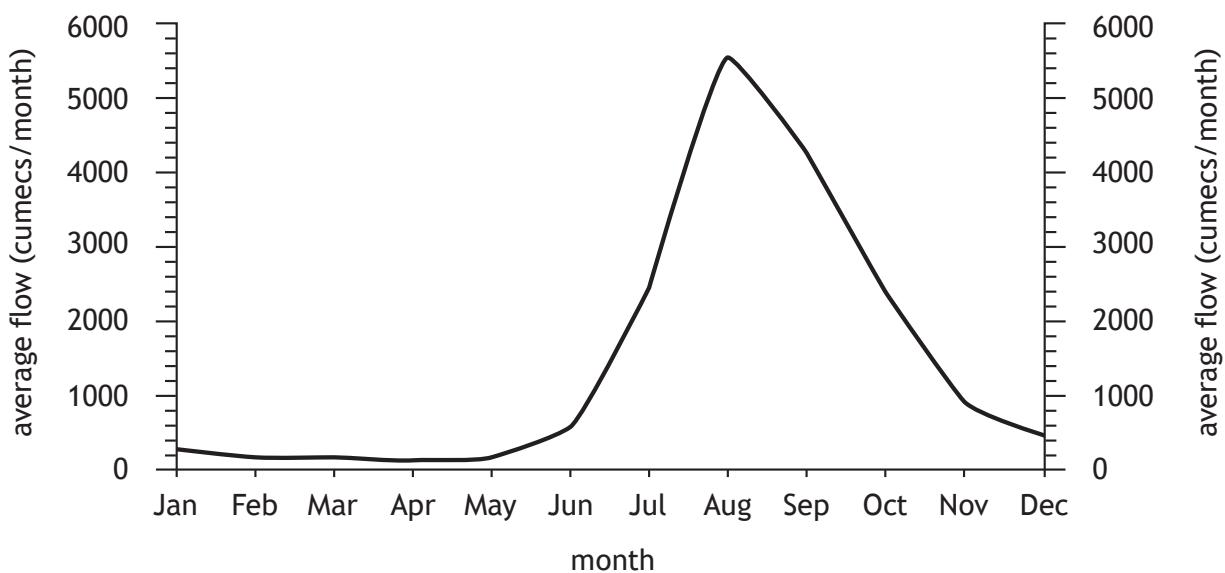


Diagram Q1C Climate graph for Asosa, Ethiopia

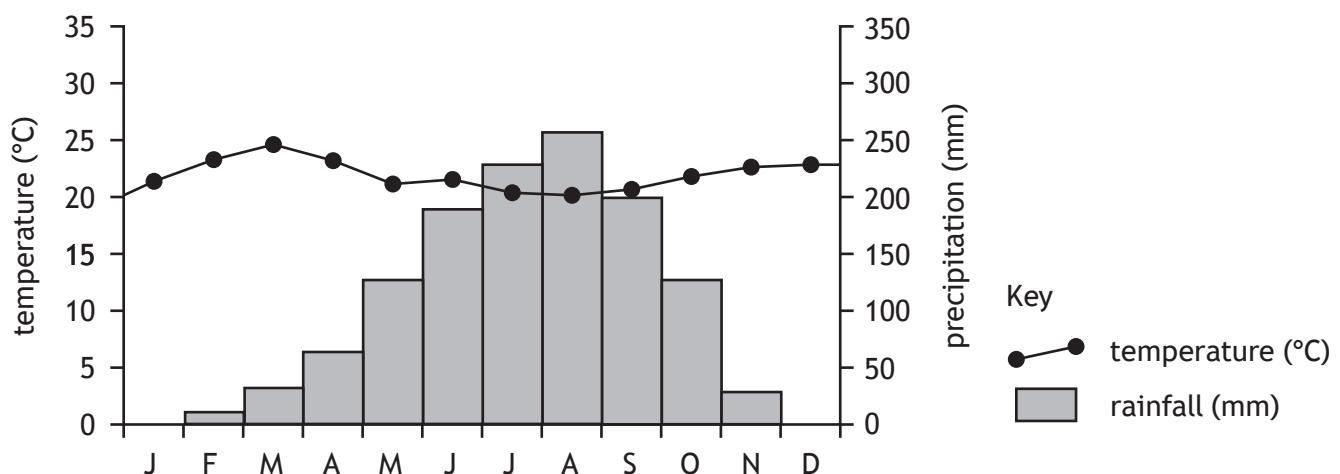


Diagram Q1D Population growth in Ethiopia

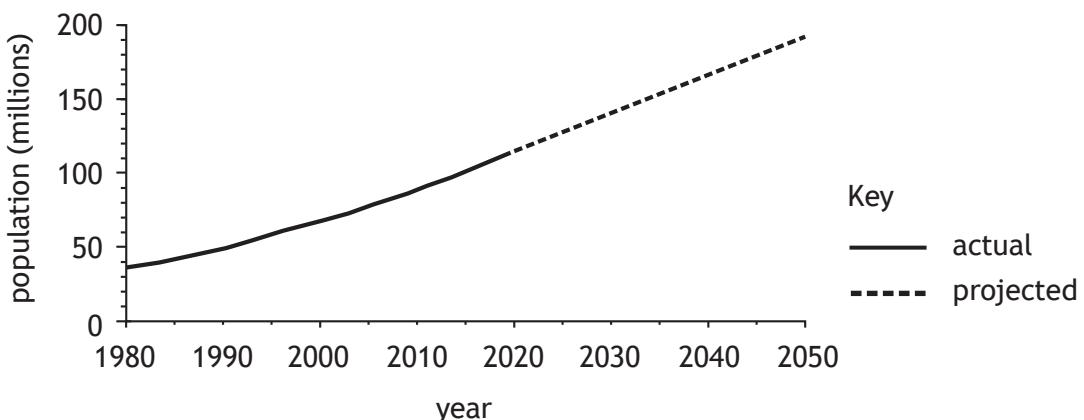


Diagram Q1E Selected statistics, Ethiopia

Population with access to improved drinking water	57%
Population with access to improved sanitation	28%
Population with access to electricity	24%
Population employed in agriculture	73%

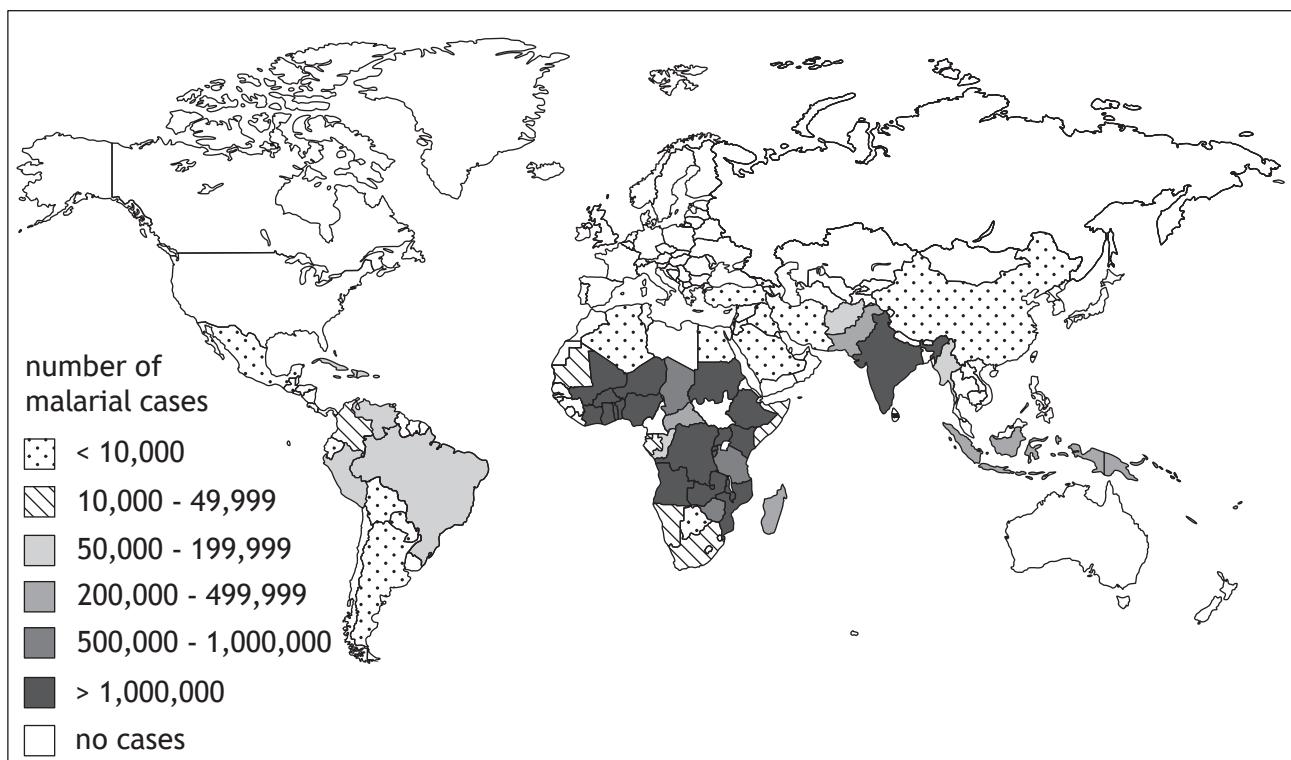
(a) Study Diagram Q1A, Diagram Q1B, Diagram Q1C, Diagram Q1D, and Diagram Q1E.

Explain why there is a need for water management in the Blue Nile Basin, Ethiopia.

10

(b) Discuss the negative socio-economic and environmental consequences of a named river management project that you have studied.

10

**Question 2 — Development and health****Diagram Q2 World distribution of malaria in 2018**

Look at Diagram Q2.

Water-related diseases such as malaria have many impacts on the development of a country.

Referring to malaria, or any other water-related disease you have studied,

(a) **discuss the impacts on people and the economy and**

6

(b) **explain the strategies used to manage the disease.**

14

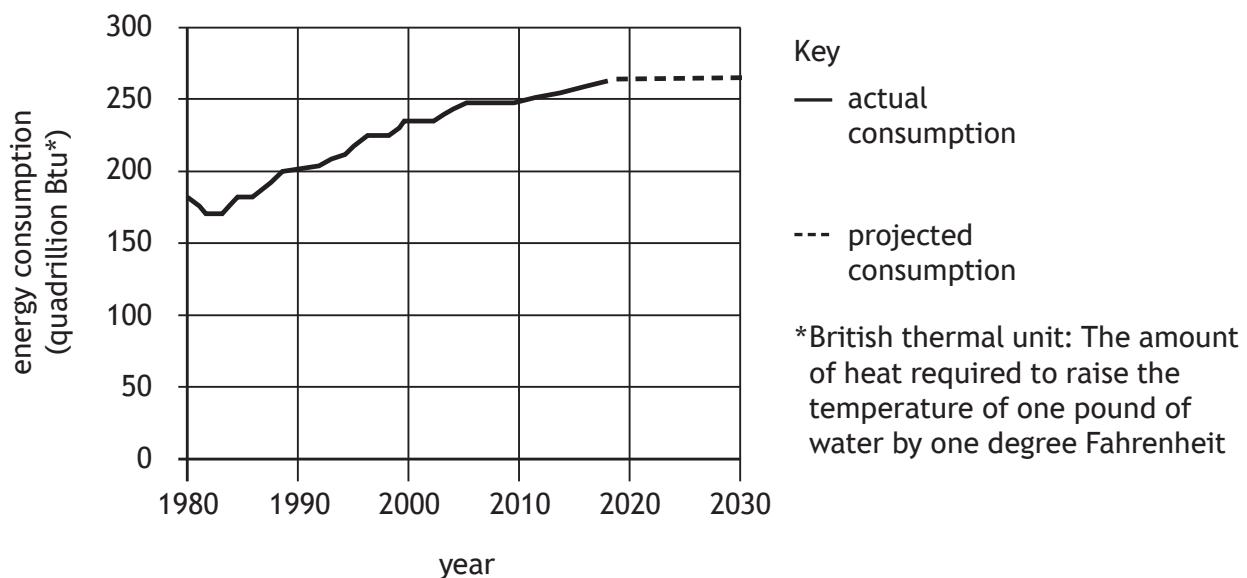
**Question 3 — Global climate change**

- (a) **Explain** the physical factors that contribute to global climate change. **8**
- (b) **Explain** possible strategies for managing climate change. **12**

[Turn over

## Question 4 — Energy

**Diagram Q4A** Energy consumption in developed countries (1980–2030)



(a) Study Diagram Q4A.

- Describe the changes shown in Diagram Q4A and
- suggest reasons for the trends in energy consumption in developed countries.

10

**Diagram Q4B** Photograph of a wind farm in Cumbria



(b) Look at Diagram Q4B.

Comment on the effectiveness of wind power, or any other renewable source of energy you have studied, in meeting the energy demands of a country.

10

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## Attempt the question

## Question 5

Plans to build a third runway at Heathrow Airport (London) have been approved. Whilst the expansion of the airport has been supported by the UK Government and many industries, it has been met with objections from local residents and environmentalists.

Plans for a third runway include

- new passenger terminals and underground passenger transit and baggage systems
- land set aside for new commercial opportunities such as offices and hotels
- increased rail capacity, from 18 to 40 trains per hour, and improvements to bus and coach services.

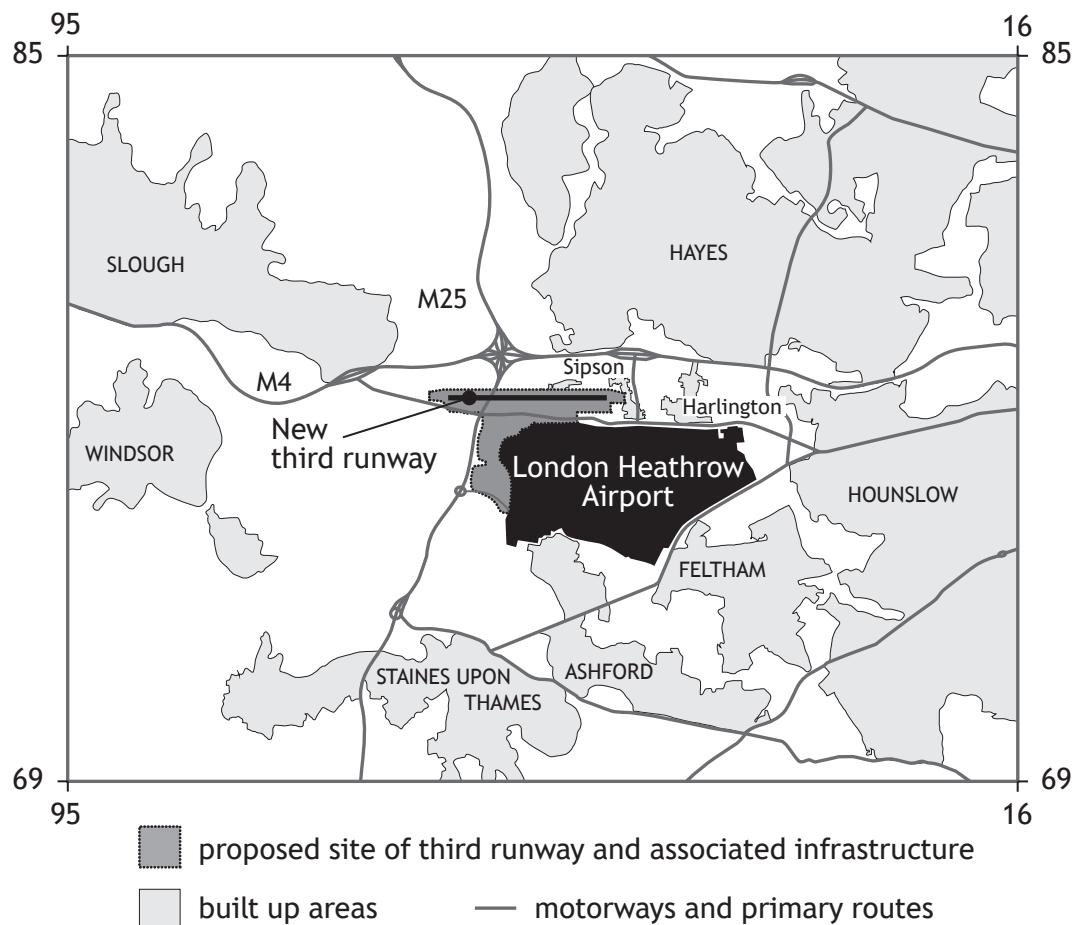
Study the Ordnance Survey map extract of the Heathrow area, Diagram Q5A, Diagram Q5B, Diagram Q5C and Diagram Q5D before answering this question.

Referring to map evidence from the OS map extract, and information from the other sources, discuss

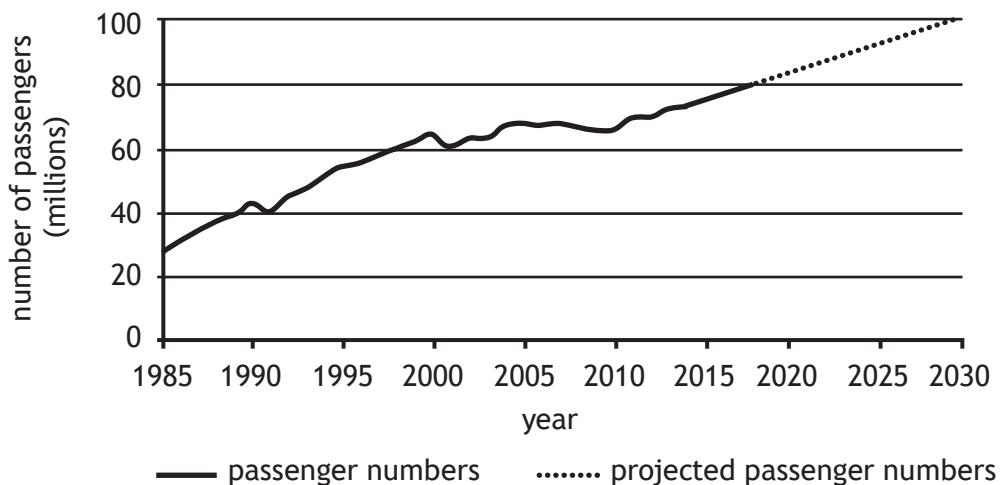
- (a) the advantages and disadvantages of the proposed site of the airport expansion and
- (b) any potential social, economic or environmental impacts this development may have on the surrounding area.

20

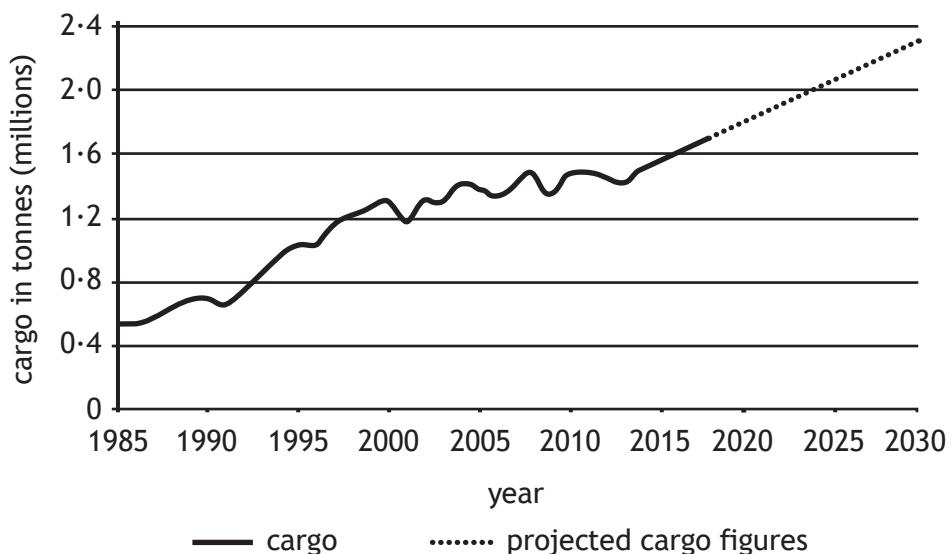
**Diagram Q5A Location map of current Heathrow Airport and site for expansion**



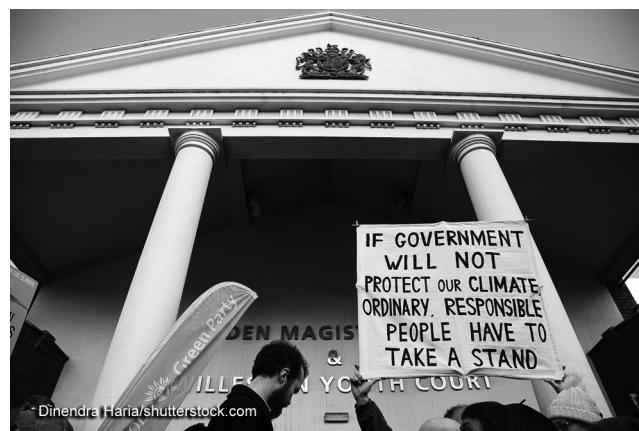
**Diagram Q5B Heathrow passenger numbers**



**Diagram Q5C Heathrow cargo in tonnes**



**Diagram Q5D Heathrow protestors**



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Diagram Q4B     ATGImages/Shutterstock.com

Diagram Q5D     Dinendra Haria/Shutterstock.com



National  
Qualifications  
2019

**X833/76/22**

TUESDAY, 28 MAY

11:20 AM – 12:30 PM

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**Geography  
Global Issues and  
Geographical Skills  
Ordnance Survey Map**

The colours used in the printing of these map extracts are indicated in the four little boxes at the top of the map extract. Each box should contain a colour; if any does not, the map is incomplete and should be returned to the Invigilator.



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