



National
Qualifications
2019

X833/76/11

**Geography
Physical and Human
Environments**

TUESDAY, 28 MAY

9:00 AM – 10:50 AM

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.



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.

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

8

Question 2

Diagram Q2 Sand spit



Look at Diagram Q2.

Explain the formation of a sand spit.

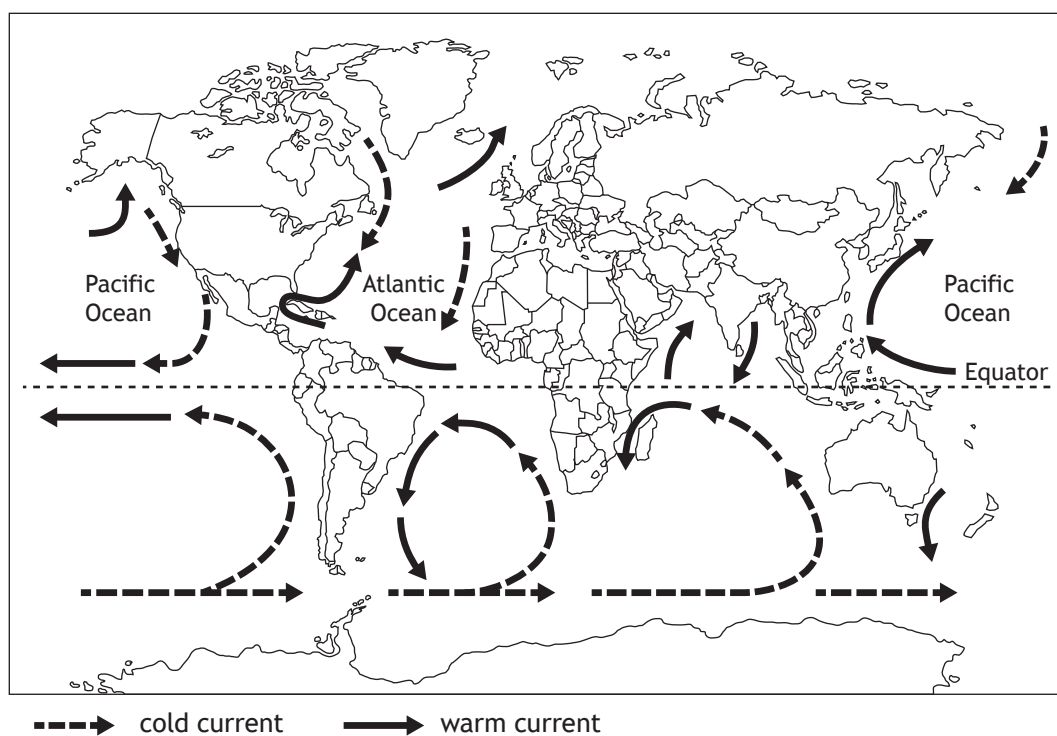
8

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

[Turn over

Question 3

Diagram Q3 Selected ocean currents

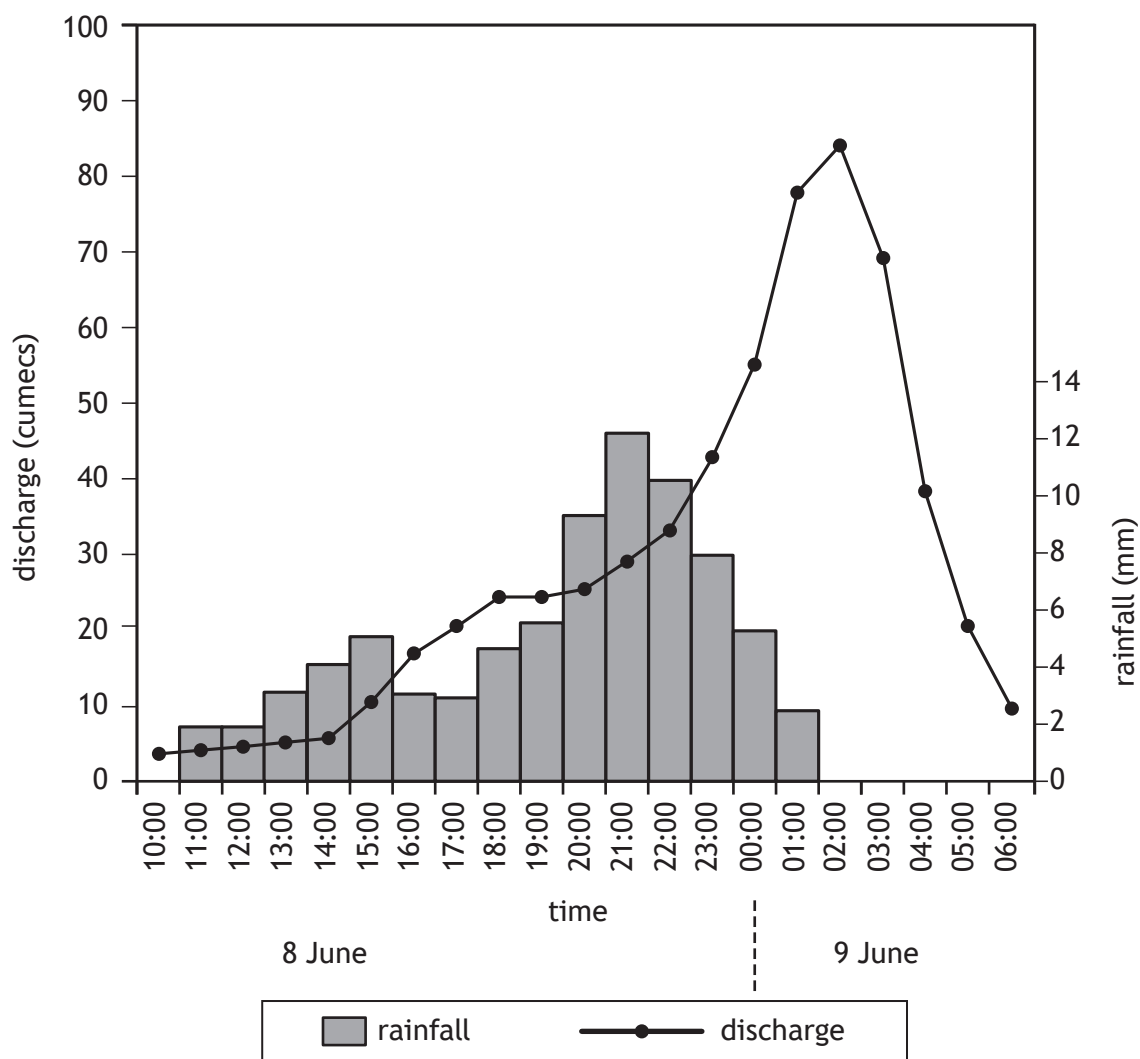


Study Diagram Q3.

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

8

Question 4

Diagram Q4 Flood hydrograph for the River Leri, West Wales, 8th and 9th June 2012

Study Diagram Q4.

For the River Leri on 8th and 9th of June

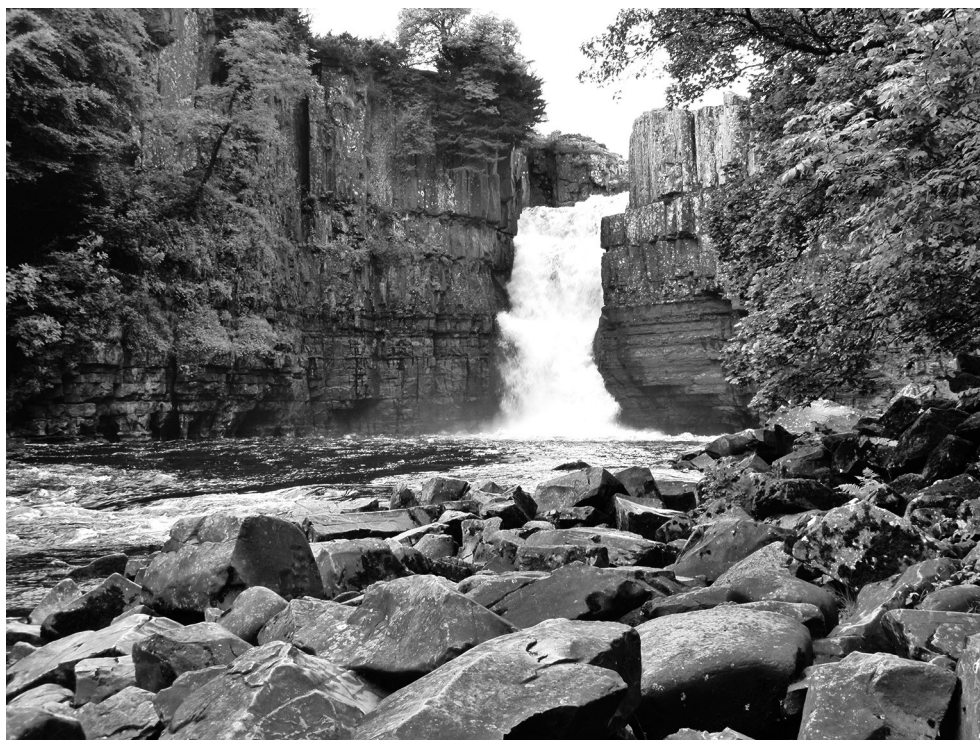
- describe** the changes in discharge level **and**
- suggest reasons** why these changes may have occurred.

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.

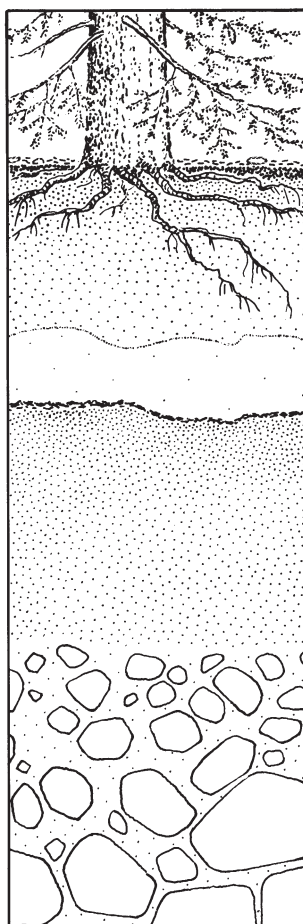
Explain the formation of a waterfall.

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.

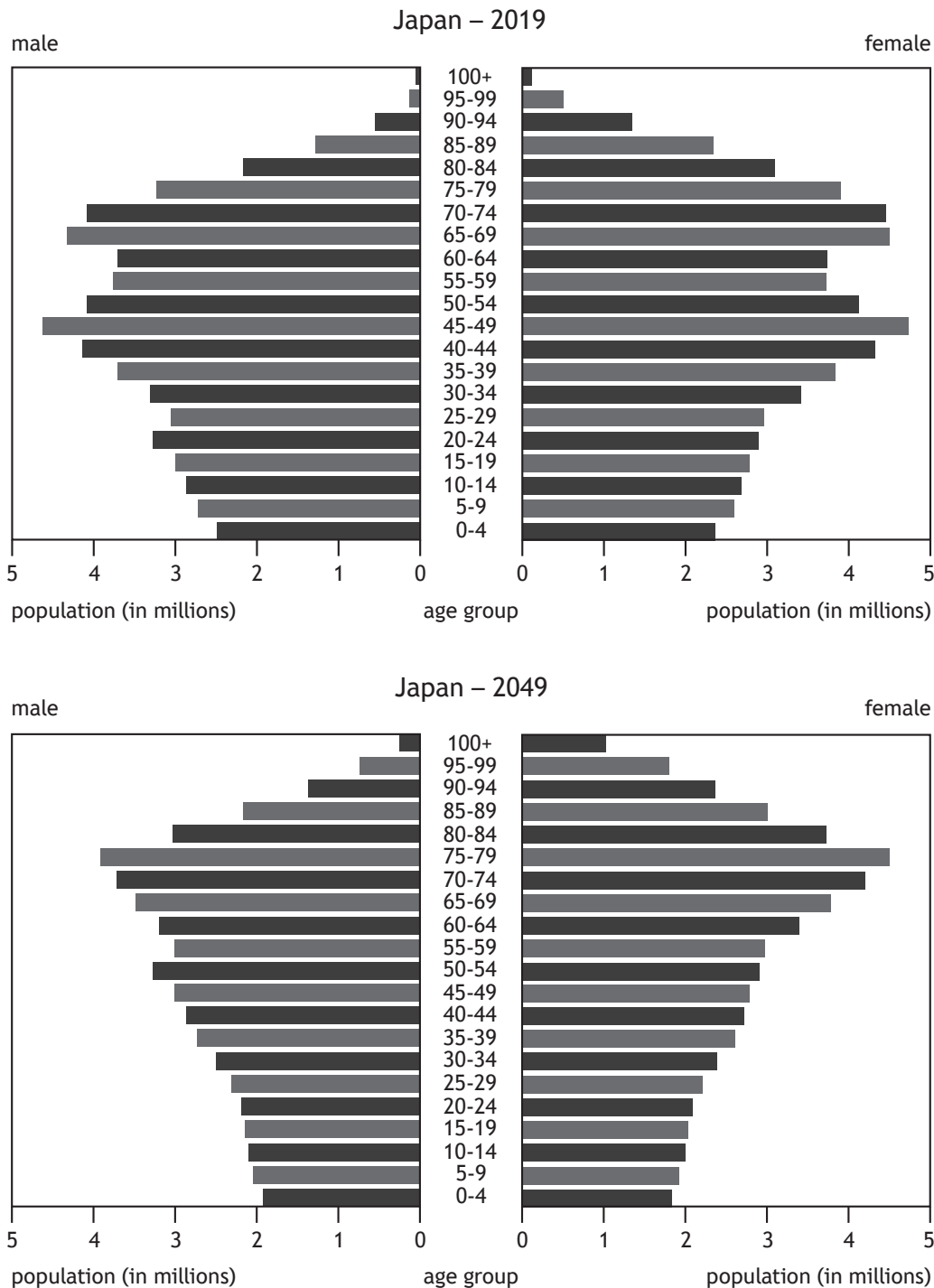
8

[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



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.
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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

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.

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

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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

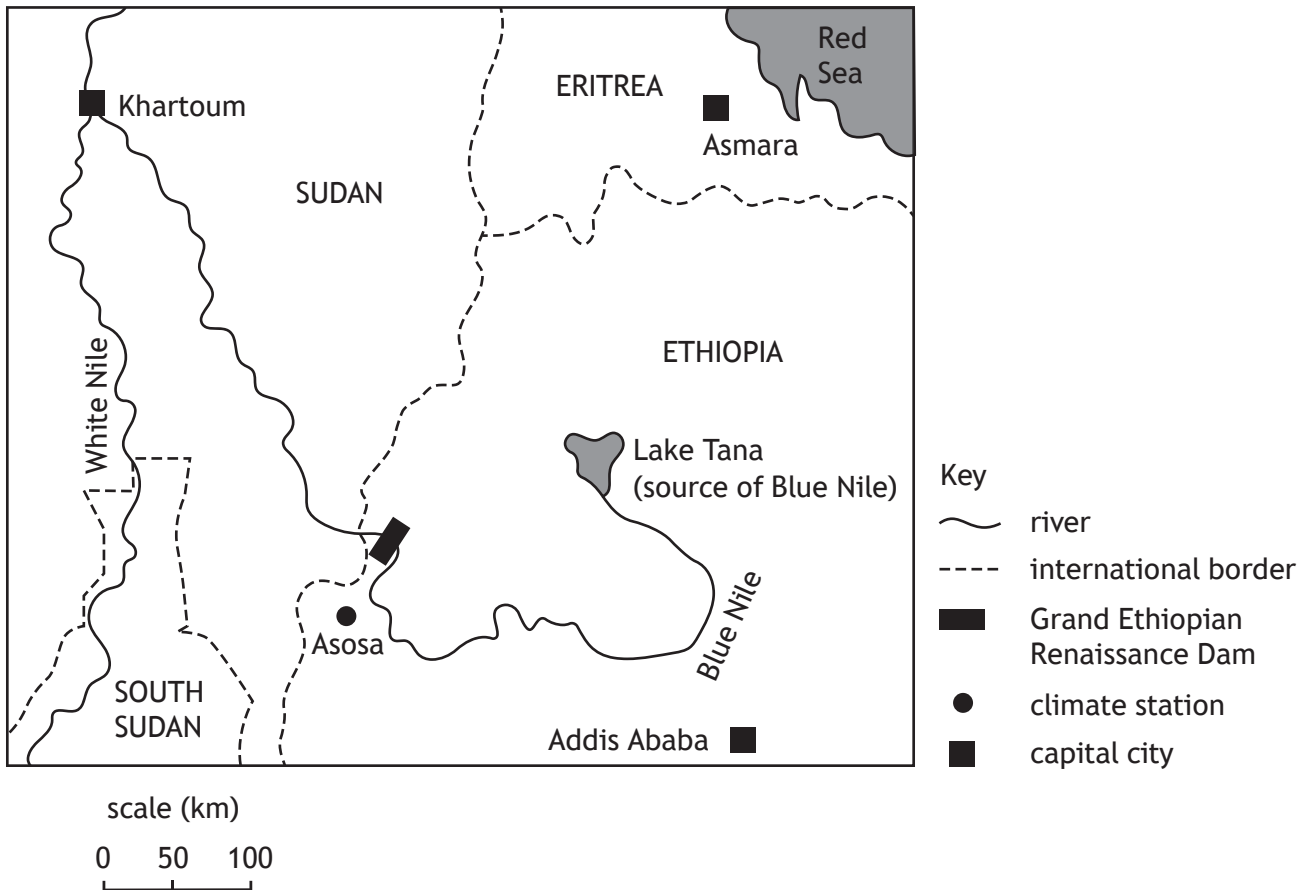


Diagram Q1B Blue Nile average monthly flow, near site of dam

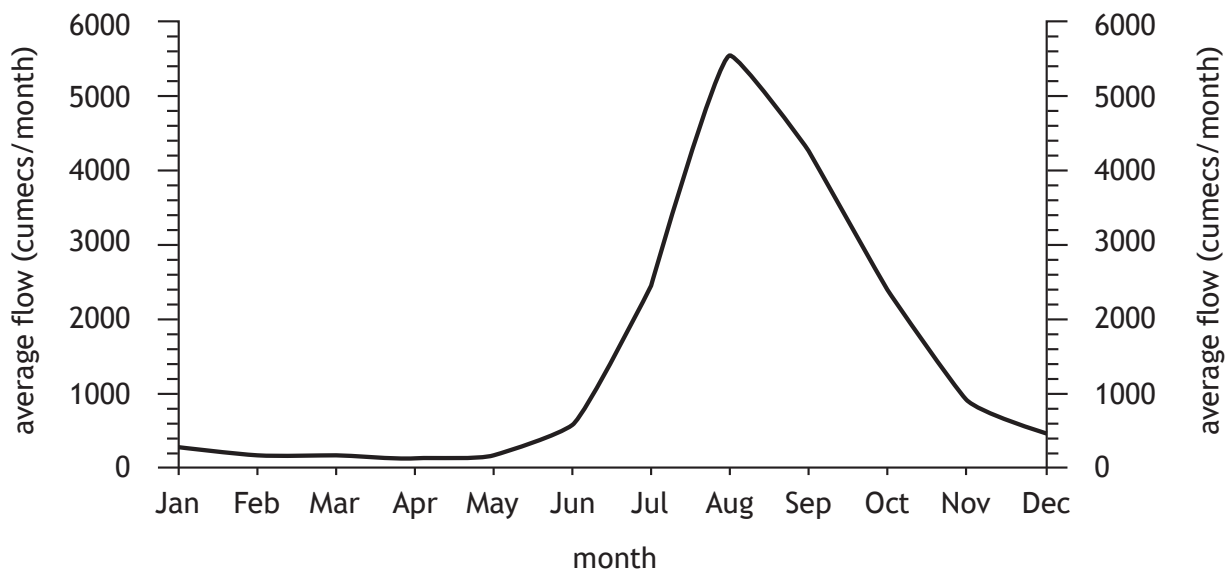


Diagram Q1C Climate graph for Asosa, Ethiopia

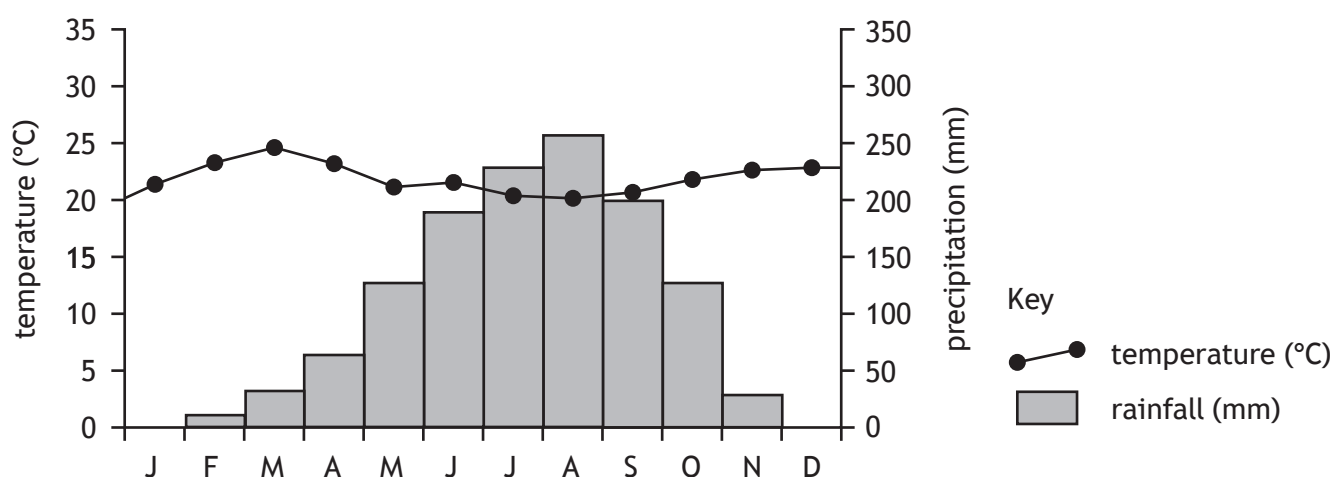


Diagram Q1D Population growth in Ethiopia

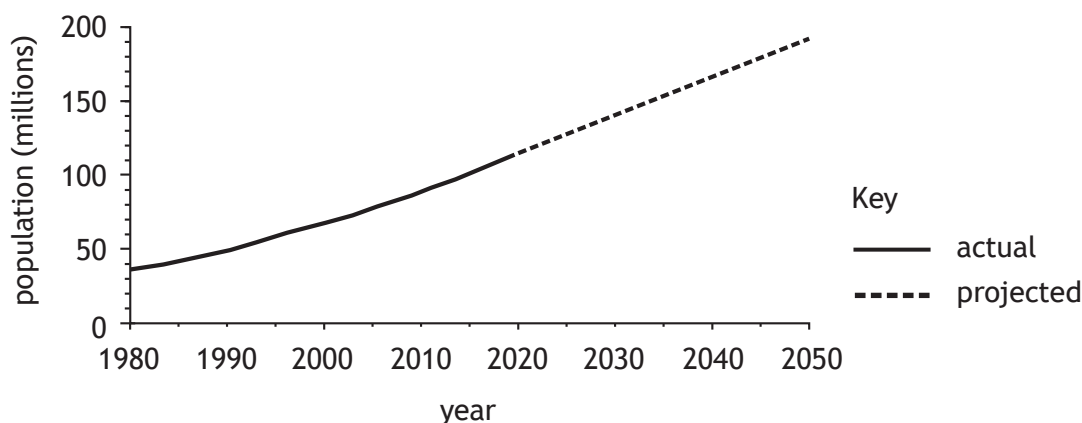


Diagram Q1E Selected statistics, Ethiopia

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.

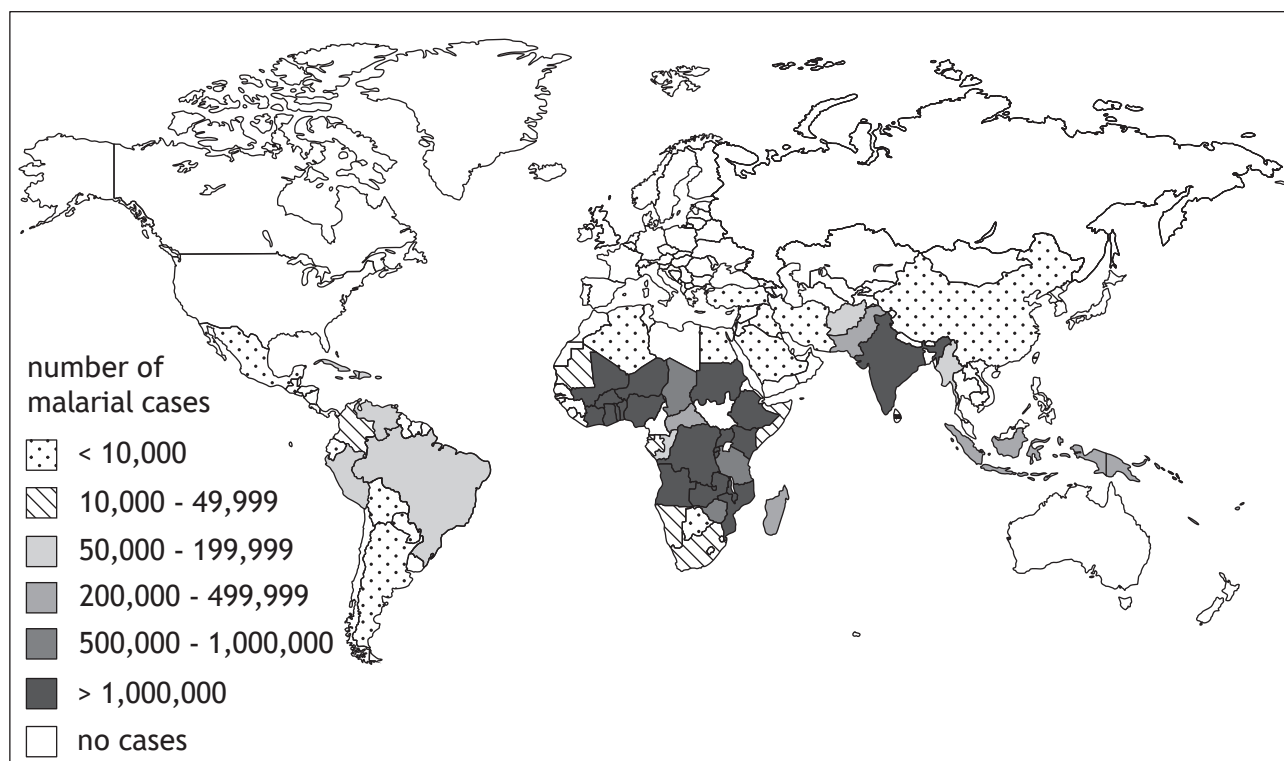
10

- (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

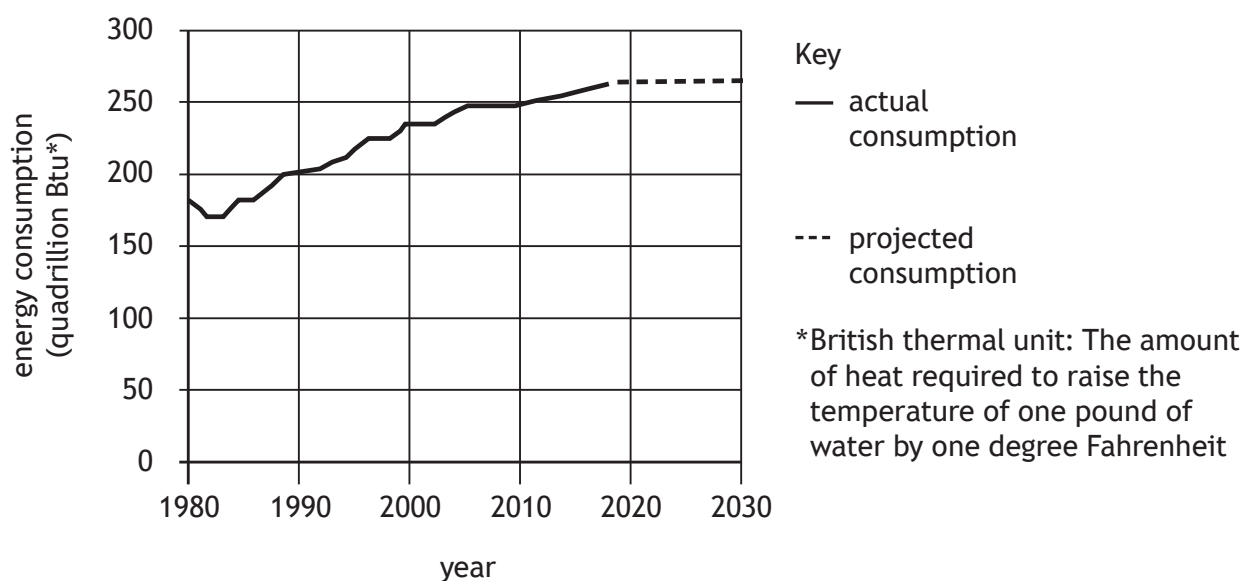
Question 3 — Global climate change

- | | |
|---|-----------|
| (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**

- the advantages **and** disadvantages of the proposed site of the airport expansion **and**
- 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

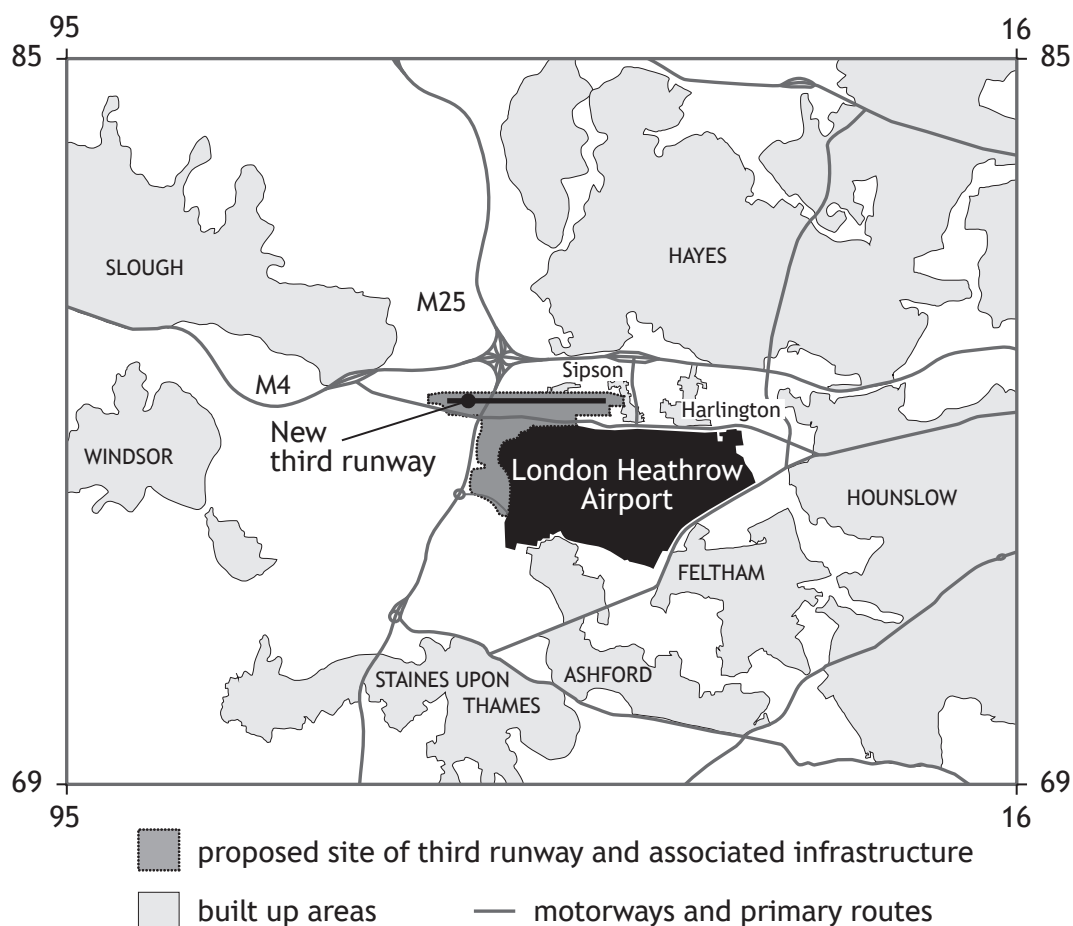


Diagram Q5B Heathrow passenger numbers

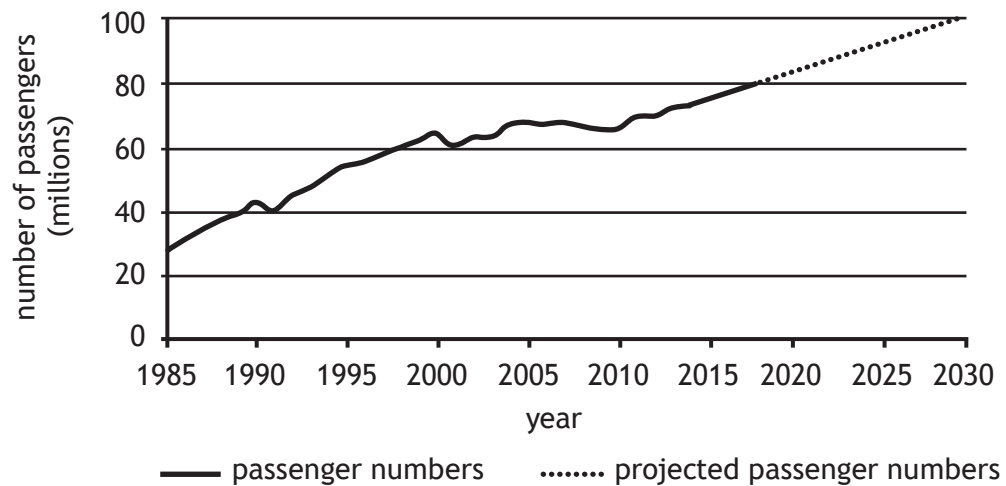


Diagram Q5C Heathrow cargo in tonnes

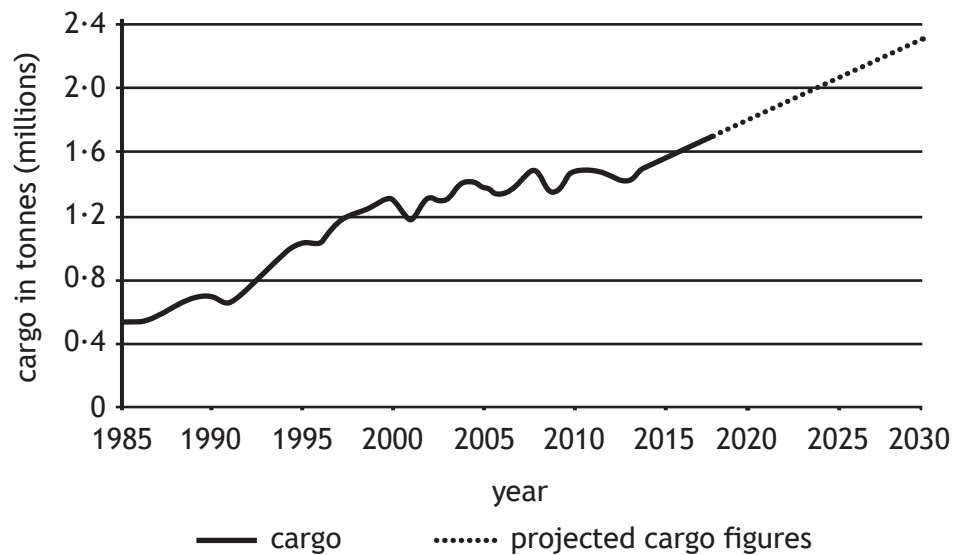
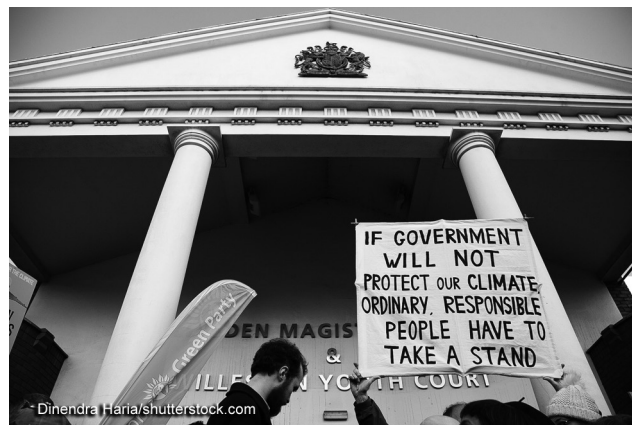


Diagram Q5D Heathrow protestors



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Diagram Q4B ATGImages/Shutterstock.com

Diagram Q5D Dinendra Haria/Shutterstock.com



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X833/76/22

TUESDAY, 28 MAY
11:20 AM – 12:30 PM

**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.





Four colours should appear above; if not then please return to the invigilator.
Four colours should appear above; if not then please return to the invigilator.

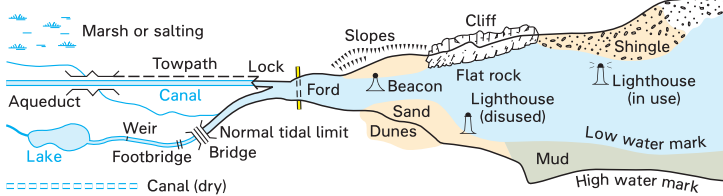
ROADS AND PATHS

	Junction number		Elevated
	Service area		Motorway (dual carriageway)
	Unfenced		Primary Route (recommended through route)
	Dual carriageway		Main road
	Footbridge		Road under construction
	Secondary road		Narrow road with passing places
	Narrow road with passing places		Road generally more than 4m wide
	Road generally less than 4m wide		Path / Other road, drive or track
	Gradient: steeper than 20% (1 in 5), 14% to 20% (1 in 7 to 1 in 5)		Gates, Road tunnel
	Ferry (passenger), Ferry (vehicle)		

RAILWAYS

	Track multiple or single		Bridges, footbridge
	Track under construction		Level crossing
	Siding		Viaduct, embankment
	Tunnel, cuttings		Station, (a) principal
	Light rapid transit system, narrow gauge or tramway		Light rapid transit system station

WATER FEATURES



HEIGHTS

	1 metre = 3.2808 feet
	Contours are at 10 metres vertical interval
	Heights are to the nearest metre above mean sea level

Where two heights are shown the first height is to the base of the triangulation pillar and the second (in brackets) to the highest natural point of the hill.

PUBLIC RIGHTS OF WAY

	Footpath
	Bridleway
	Restricted byway
	Byway open to all traffic

OTHER PUBLIC ACCESS

	On-road cycle route
	Traffic-free cycle route
	National Cycle Network number
	Regional Cycle Network number
	National Trail, European Long Distance Path, Long Distance Route, selected Recreational Routes

BOUNDARIES

	National
	District
	County, Unitary Authority, Metropolitan District or London Borough
	National Park

ANTIQUITIES

	Site of antiquity
	Battlefield (with date)
	Visible earthwork
	Roman
	Non-Roman

TOURIST INFORMATION

	Camp site / caravan site
	Garden
	Golf course or links
	Information centre (all year / seasonal)
	Nature reserve
	Parking, Park and ride (all year / seasonal)
	Picnic site
	Recreation / leisure / sports centre
	Selected places of tourist interest
	Telephone, public / roadside assistance
	Viewpoint
	Visitor centre
	Walks / Trails
	World Heritage site or area
	Youth hostel

LAND FEATURES

	Electricity transmission line (pylons shown at standard spacing)
	Pipe line (arrow indicates direction of flow)
	Buildings
	Important building (selected)
	Bus or coach station
	Current or former place of worship (with tower, with spire, minaret or dome)
	Place of worship
	Glass structure
	Helipoint
	Triangulation pillar
	Mast
	Wind pump, wind turbine
	Windmill with or without sails
	Graticule intersection at 5' intervals
	Cutting, embankment
	Landfill site or slag/spoil heap
	Coniferous wood
	Non-coniferous wood
	Mixed wood
	Orchard
	Park or ornamental ground
	Forestry Commission land
	National Trust (always open / limited access, observe local signs)
	National Trust for Scotland (always open / limited access, observe local signs)

ABBREVIATIONS

Br	Bridge	MS	Milestone
Cem	Cemetery	Mus	Museum
CG	Cattle grid	P	Post office
CH	Clubhouse	PC	Public convenience (in rural areas)
Fm	Farm	PH	Public house
Ho	House	Sch	School
MP	Milepost	TH	Town Hall, Guildhall or equivalent

