GCSE GEOGRAPHY

UNIT 2

ENVIRONMENTAL AND DEVELOPMENT ISSUES

SAMPLE ASSESSMENT MATERIALS

1 hour 30 minutes

Section	Question	Mark	SPaG
A	1	28	
	2	28	3
B	either 3	24	
	or 4	24	
Total		80	3

ADDITIONAL MATERIALS
In addition to this paper you may require a calculator and a ruler.

INSTRUCTIONS TO CANDIDATES
Answer **both** questions in Section A.
Answer **one** question in Section B.

Use black ink or black pall-point pen.
Write your name, centre number and candidate number in the spaces at the top of this page.
Write your answers in the spaces provided in this booklet.
If additional space is required you should use the lined pages at the end of this booklet.
The question numbers should be clearly shown.

INFORMATION FOR CANDIDATES
Your ability to communicate and organise your ideas will be assessed in questions that are worth 6 or 8 marks. Your ability to use specialist language, spell, punctuate and use grammar accurately will be assessed in your answer to question 2 (d)

SECTION A

CORE THEMES

*Answer **all** of the questions in this section.*

CORE THEME 5: Weather, climate and ecosystems

1.   (a)   Study Map 1.1 and the photographs below.

Map 1.1 Average rainfall in Wales, England and Scotland

north-west Wales

eastern England

Average annual rainfall (mm)

	Under 750
	750 – 1250
	1250 – 2000
	Over 2000
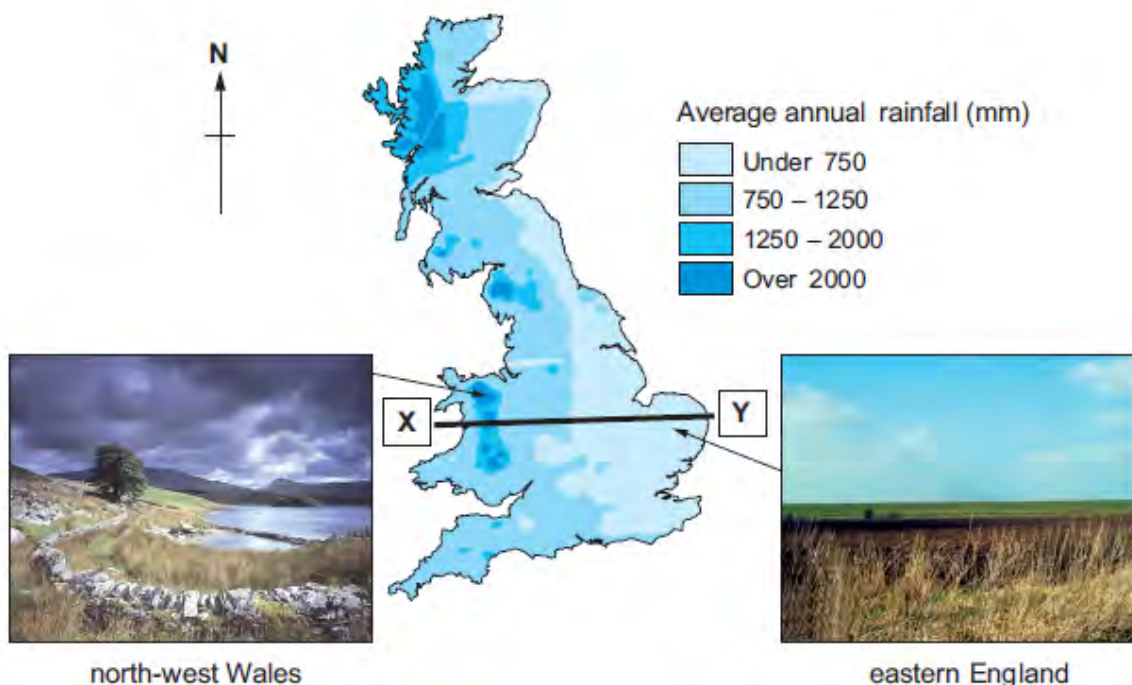
(i)   Complete the following passage using **three** words or figures from the box below.   (3)

higher	under 750	east	750 – 1250	flatter
south	lower	west	over 2000	

In eastern England the average annual rainfall is .... mm. Along

the line Y – X rainfall increases towards the .... where the relief

of the land is much ....

(ii)   Study Diagram 1.2 below. It shows the cross-section from X-Y on Map 1.1.

Diagram 1.2 How relief rainfall is formed
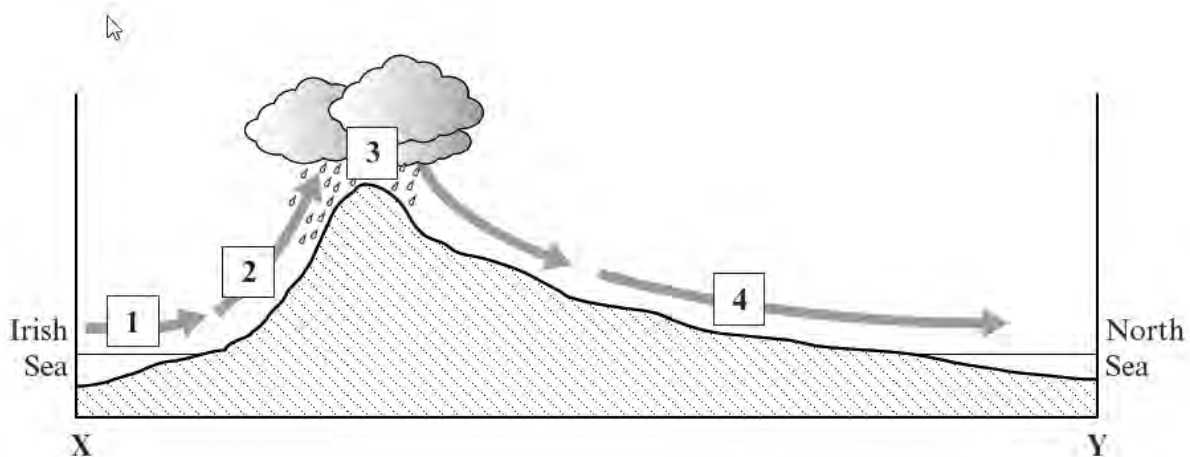
Write the **four** correct numbers from Diagram 1.2 alongside each correct label in the table below. **One** of the labels is **incorrect.**   (4)

Label	Number
Air rises and is cooled	
Air rises and is warmed	
Area of low rainfall (rain shadow)	
Warm air from the sea contains moisture	
Water vapour condenses	

(iii)   State **one** way in which the height of the land affects temperature. (1)

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(b)   Study Weather Map 1.3 below. It shows a low pressure system (depression) over the British Isles in March 2011.
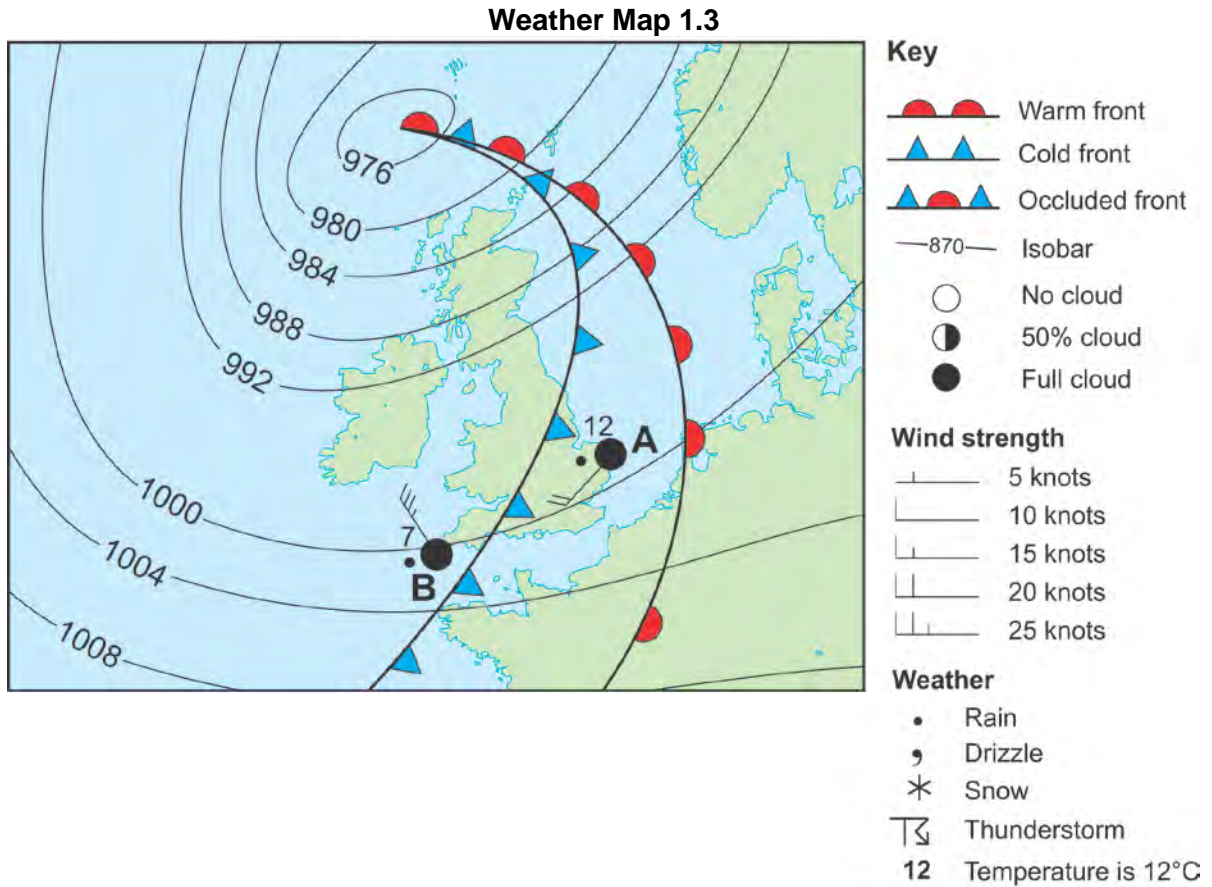
Weather Map 1.3

(i)   Complete Weather Map 1.3 by drawing the 996 mb isobar.   (1)

(ii)   Calculate the difference in temperature between the two weather stations shown on Weather Map 1.3.   (1)

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(iii)   Use the key from Weather Map 1.3 to complete the table below.   (4)

The wind speed at Station A was	
The amount of cloud at Station A was	
The type of precipitation falling at Station A was	
The wind direction at Station A was	

(iv)   Give **one** reason why it is raining at weather station B.   (2)

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(c)   Study Diagram 1.4 below. It shows a food web in the Altai Mountains in Russia.

Diagram 1.4
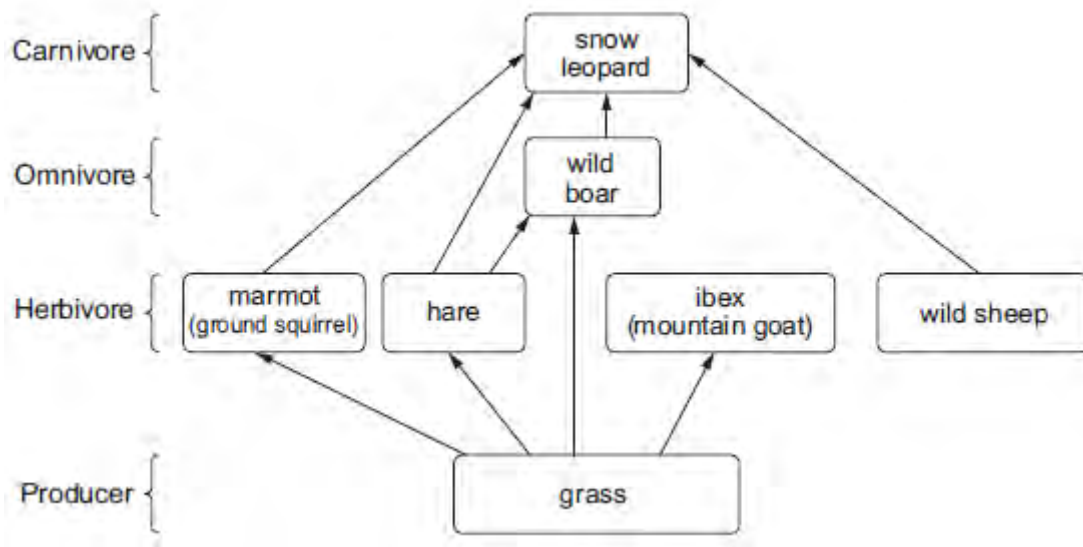
(i)   Give **two** reasons why producers are an essential part of all food webs.   (4)

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Study Photograph 1.5 below which shows the Altai Mountains.

Photograph 1.5 The Altai Mountains in Russia

(ii)   Suggest why plant growth is difficult in the environment shown in Photograph 1.5.   (2)

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(d)   Compare the environmental impacts of two different ways of producing food in **one** ecosystem you have studied.   (6)

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End of Question 1

CORE THEME 6: Economic development

2.   (a)   Study Diagram 2.1 below.

Diagram 2.1 Patterns of World Trade
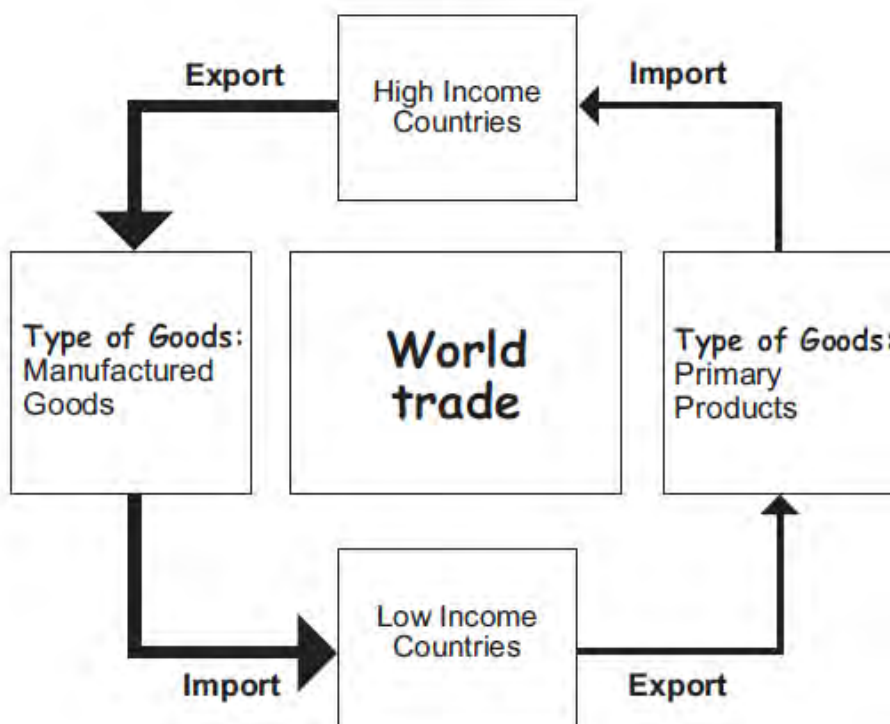
(i)   Use Diagram 2.1 to complete the following paragraph.   (3)

World trade is the export and .... of products and services

between different countries. High Income countries tend to sell

.... products, which are .... in value than those sold by

Low Income Countries.

(ii)   Name **one** Low Income Country that depends on the export of primary
products. Give the name of **one** of these products.   (2)

Name of country ....

Name of product ....

(b) Diagram 2.3 shows where the money goes from the sale of a sack of fair trade coffee.

Diagram 2.3

25% Grower

7% Transport

8% Roasting and bagging

5% Labels and bags

30% Expenses

25% Retailer
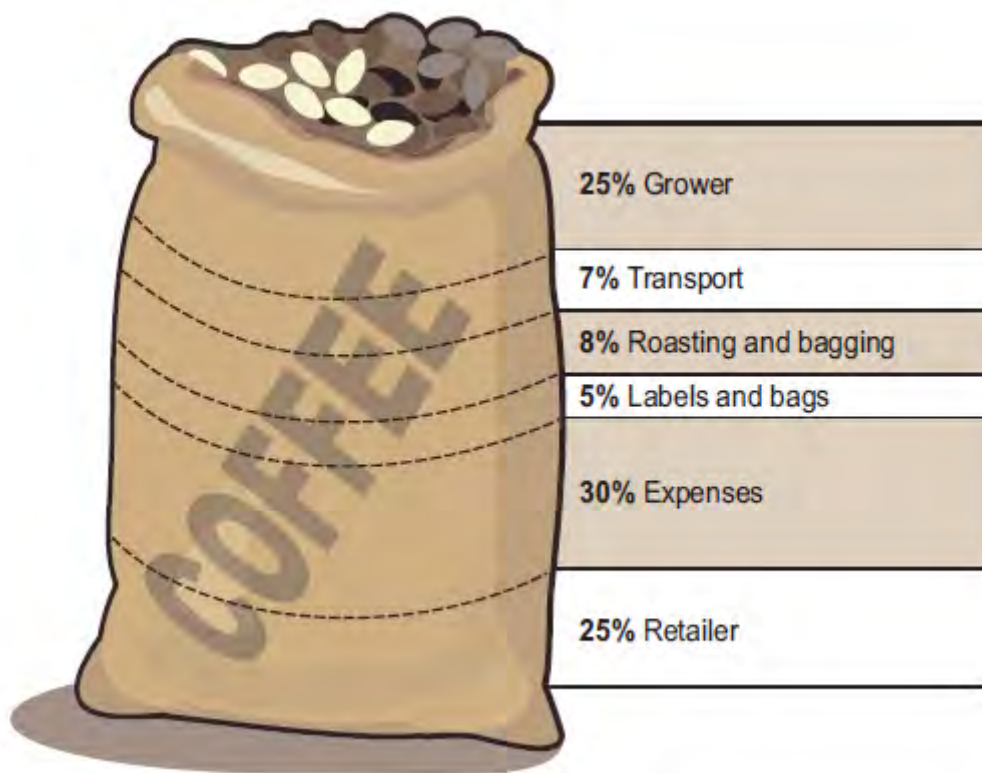
(i) Suggest **one** other way of representing the data shown in Diagram 2.3. Justify your choice. (3)

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(ii) What is fair trade? (2)

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(iii)   Outline **two** advantages of fair trade for coffee growers.   (4)

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(c) Study the information below. It shows **two** screenshots from a GIS website which is about poverty.

Map 2.4 Percentage of people living on $1.25 a day in Africa
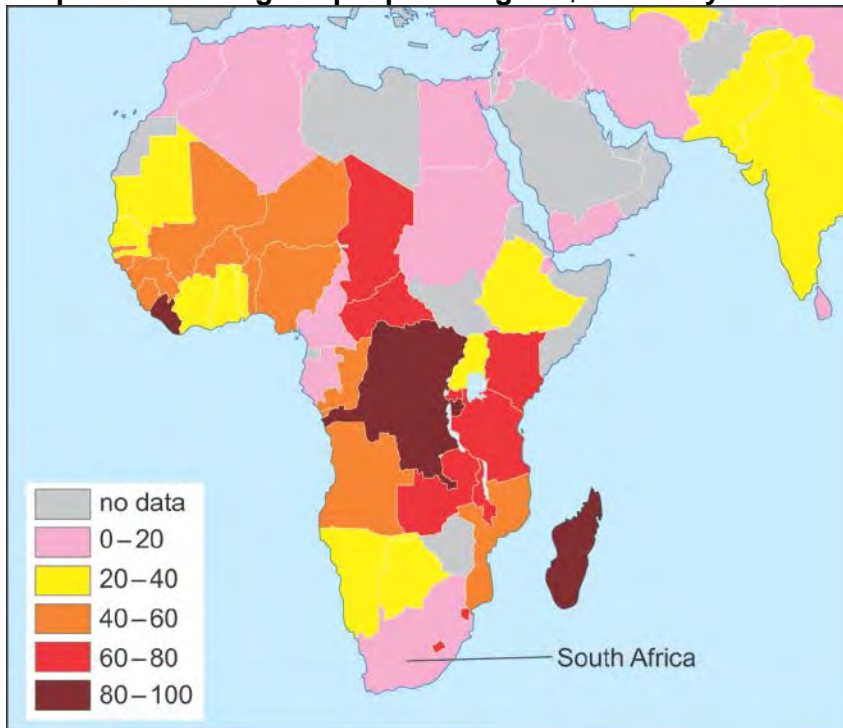
Source: www.povertydata.worldbank.org/poverty

Graph 2.5
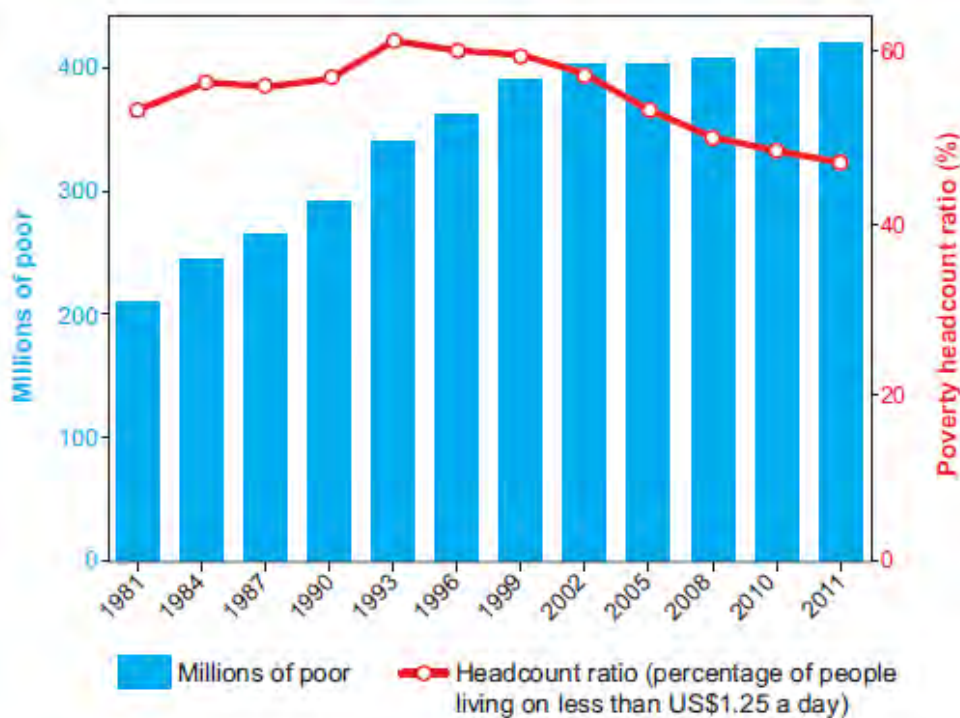
Source: www.povertydata.worldbank.org/poverty

(i)   Use Map 2.4 to give the percentage of people living on US$1.25 a day in South Africa.   (1)

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(ii)   Use Graph 2.5 to describe the trend in the poverty headcount ratio. (2)

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(iii)   Map 2.4 shows the data in different colours. What name is given to this type of map?   (1)

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(iv)   Suggest **one** limitation of the technique used in Map 2.4.   (2)

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(d)   There is poverty in many parts of Wales.

Explain why there are areas of poverty in different parts of Wales. You should refer to places you have studied. (8)

The accuracy of your writing will be assessed in your answer to this question. (3)

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End of Question 2

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SECTION B – OPTIONS

*Answer **one** question in this section, either question 3 or question 4.*

THEME 7: Social development

3. (a) Study Map 3.1.

Map 3.1 Standard of Living in Pakistan (measured using HDI)
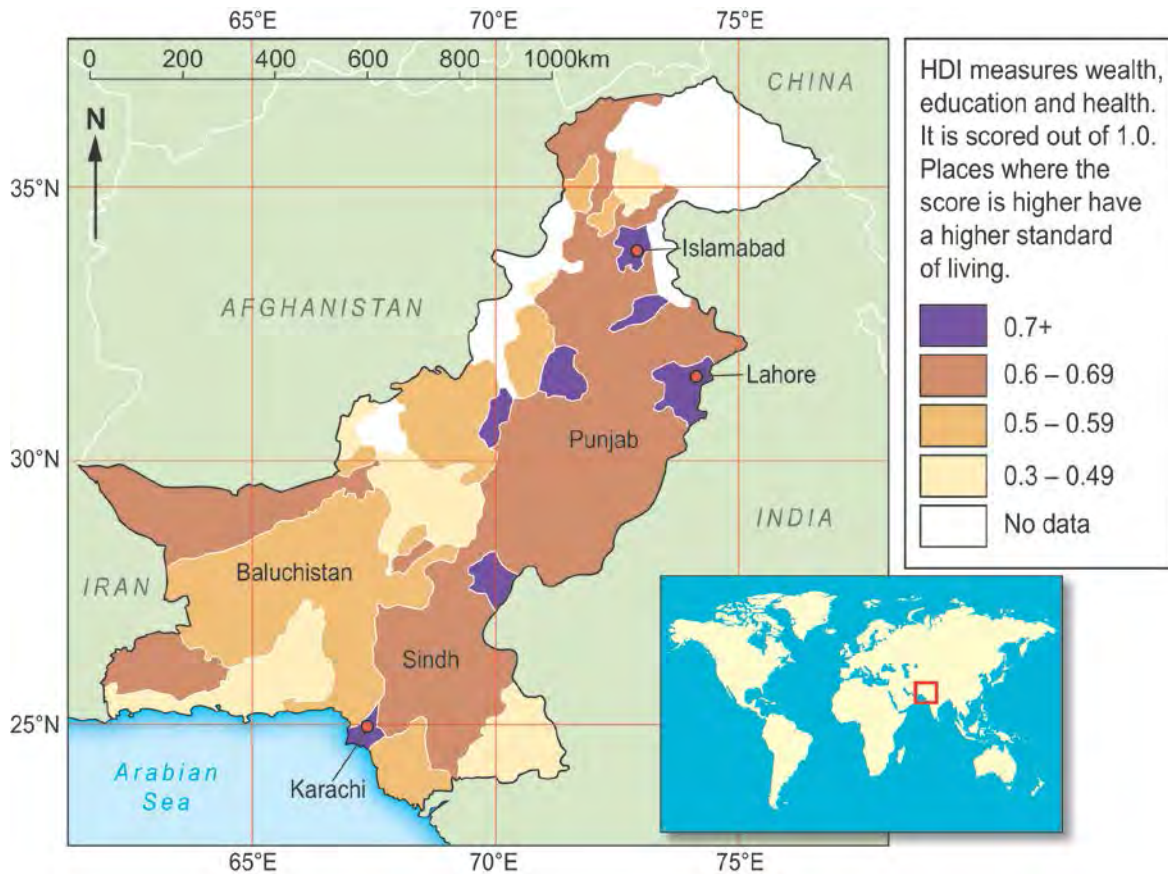
(i) In which continent is Pakistan? (1)

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(ii) Use Map 3.1 to complete the box below to give the latitude and longitude of Karachi. (2)

	Latitude	Longitude
Karachi	25°	.... East

(iii)   Use Map 3.1 to describe the distribution of places within Pakistan that have the highest standard of living. (2)

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(b)   (i)   HDI is an indicator of social development.

Choose **one** other indicator of social development from the list below. Tick **(✓)** the correct answer. (1)

	Tick (✓)
Gross National Income (GNI)	
Percentage workforce employed in the primary sector	
Adult literacy	

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(ii)   Describe how this indicator measures social development. (2)

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(c)   Study Graph 3.2 below.

**Graph 3.2 The relationship between wealth (GNI) and infant mortality
for different countries**

Wealth (GNI) measured in US$ per person
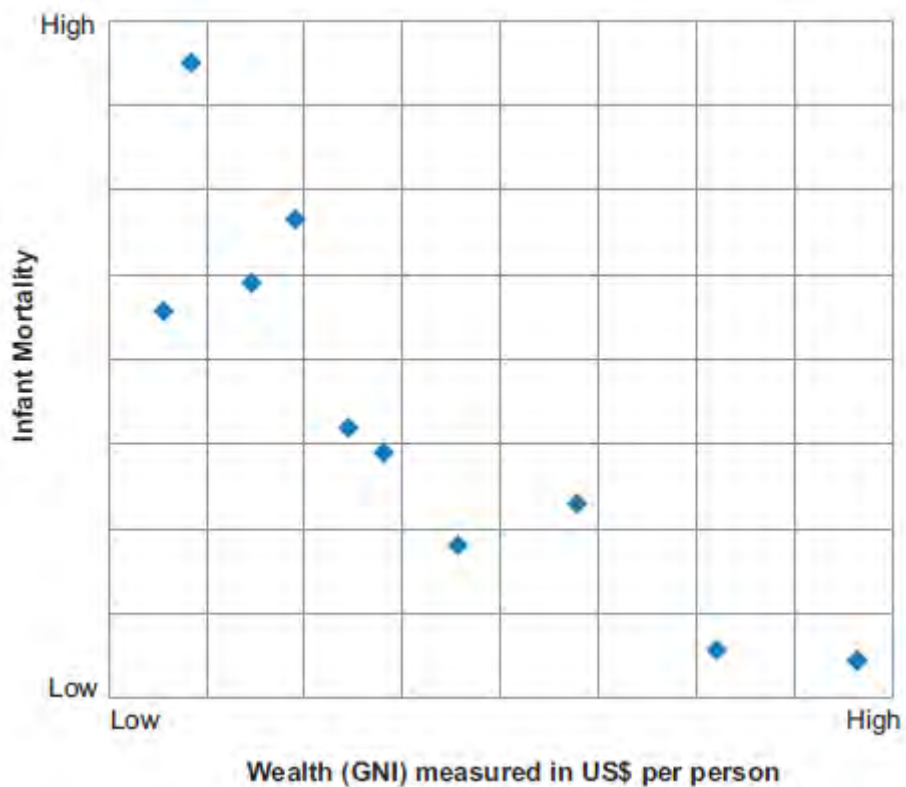
(i)   Draw a line of best fit on Graph 3.2.   (2)

(ii)   Use Graph 3.2 to describe the relationship between GNI and infant
       mortality.   (2)

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(iii)   Explain why infant mortality rates are high in many sub-Saharan countries.   (6)

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(d)   'The education of girls is a key factor in the development of countries in sub-Saharan Africa or Asia.' How far do you agree with this statement?   (6)

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End of Question 3

THEME 8 – Environmental challenges

*If you have answered question 3 **do not** answer question 4.*

4. (a) Study Map 4.1 below.

Map 4.1 The main flower growing areas of Kenya
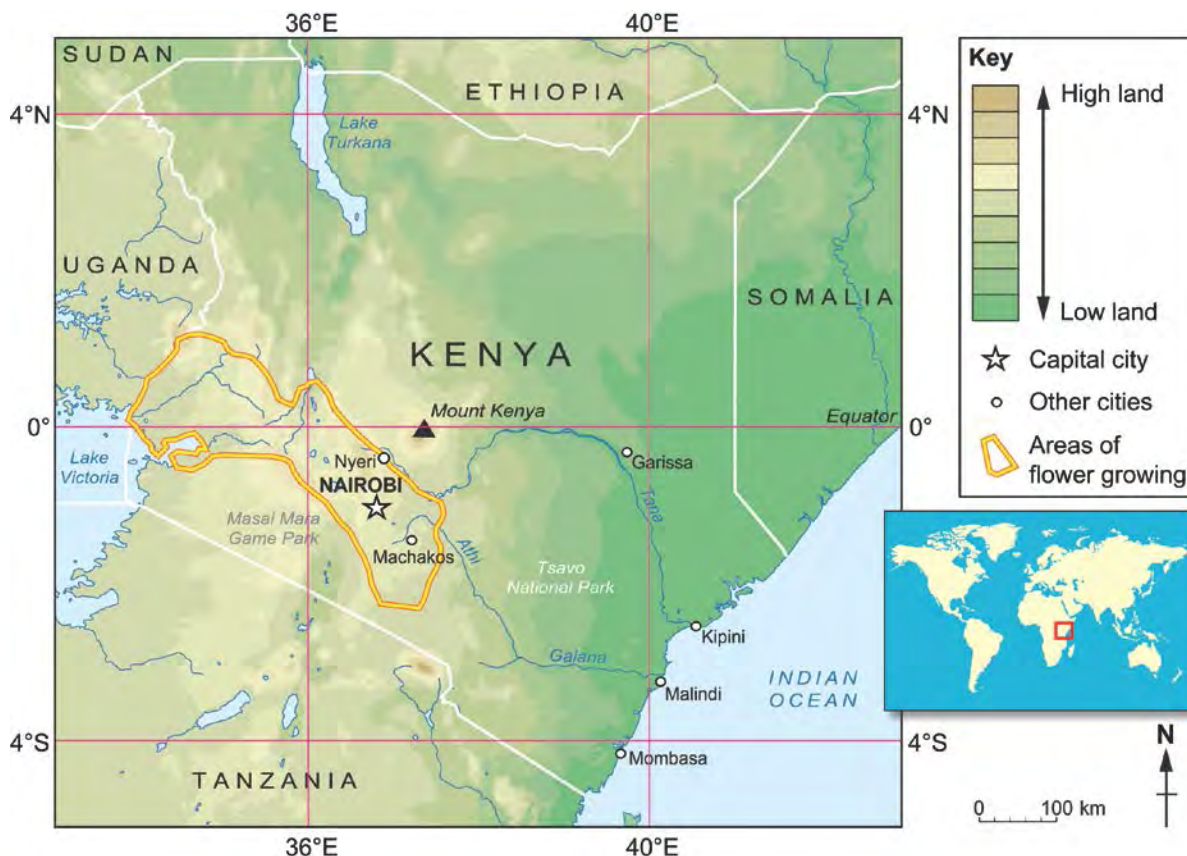
(i) In which continent is Kenya? (1)

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(ii) Use Map 4.1 to complete the box below to give the latitude and longitude of Nairobi. (2)

	Latitude	Longitude
Nairobi	1°	.... East

(iii) Use Map 4.1 to describe the location of the main flower growing areas within Kenya. (2)

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(b)　　(i)　　Kenya sells most of its flowers to countries in Europe.

What name is given to people who buy products such as flowers in UK shops? Tick **(✓)** the correct answer.　　　　　　　　　(1)

	Tick (✓)
Retailers	
Consumers	
Importers	

(ii)　　Outline **two** ways that are used to transport flowers or food from distant countries, such as Kenya, to the UK.　　　　(2)

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(c)   Study Graph 4.2 below.

**Graph 4.2 The relationship between wealth (GNI) and
the rate of rainforest destruction**
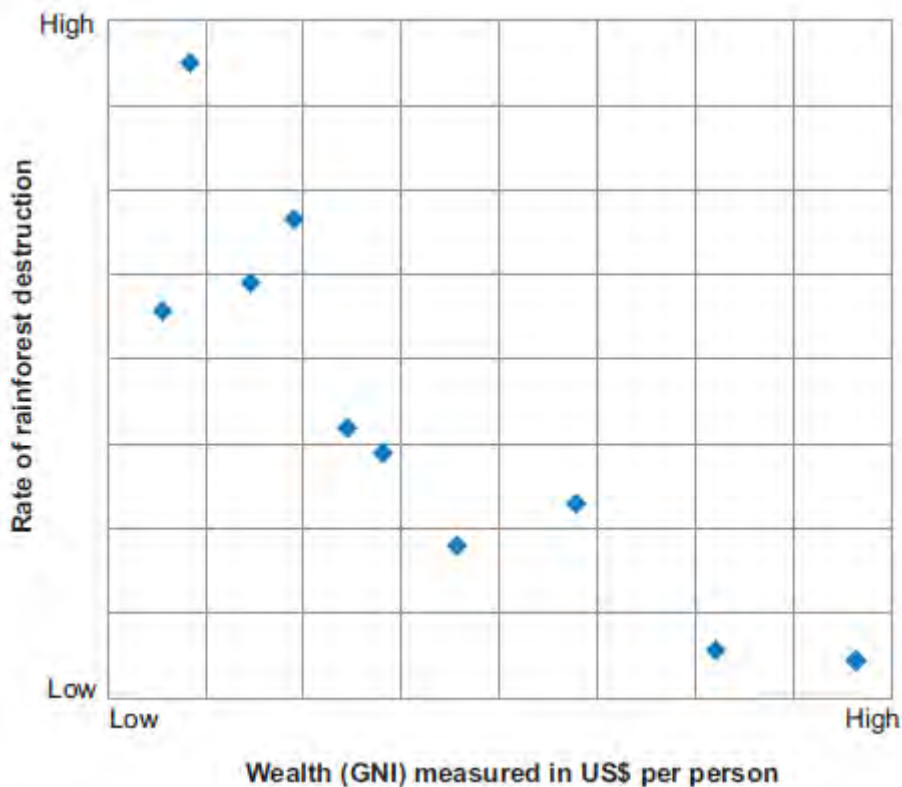
(i)   Draw a line of best fit on Graph 4.2.   (2)

(ii)   Use Graph 4.2 to describe the relationship between GNI and the rate of rainforest destruction.   (2)

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(iii)   UK shoppers have the spending power to buy products from all over the world. Explain why this can have effects on the environment.   (6)

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(d)   'Environmental management strategies often fail to protect ecosystems.'

How far do you agree with this statement in relation to **one** ecosystem you have studied?   (6)

Name of ecosystem ....

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End of Question 4

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