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| Surname | Centre Number | Candidate Number |
| First name(s) | | 0 |



GCSE

C112U10-1



S24-C112U10-1



FRIDAY, 17 MAY 2024 – AFTERNOON

GEOGRAPHY B – Component 1**Investigating Geographical Issues**

1 hour 45 minutes

| For Examiner's use only | | |
|-------------------------|--------------|--------------|
| Question | Maximum Mark | Mark Awarded |
| 1. | 32 | |
| SPaG | 4 | |
| 2. | 32 | |
| 3. | 32 | |
| Total | 100 | |

ADDITIONAL MATERIALS

Resource Folder.

A calculator and a ruler if required.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

You may use a pencil for graphs and diagrams only.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided in this booklet.

Additional space is provided for some questions within the booklet (if required). If further space is required for any question, you should use the additional page(s) at the end of this booklet. The question number(s) should be clearly shown.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part-question.

You are reminded that assessment will take into account your ability to spell, punctuate and use grammar and specialist terminology accurately in your answer to Question 1(d).



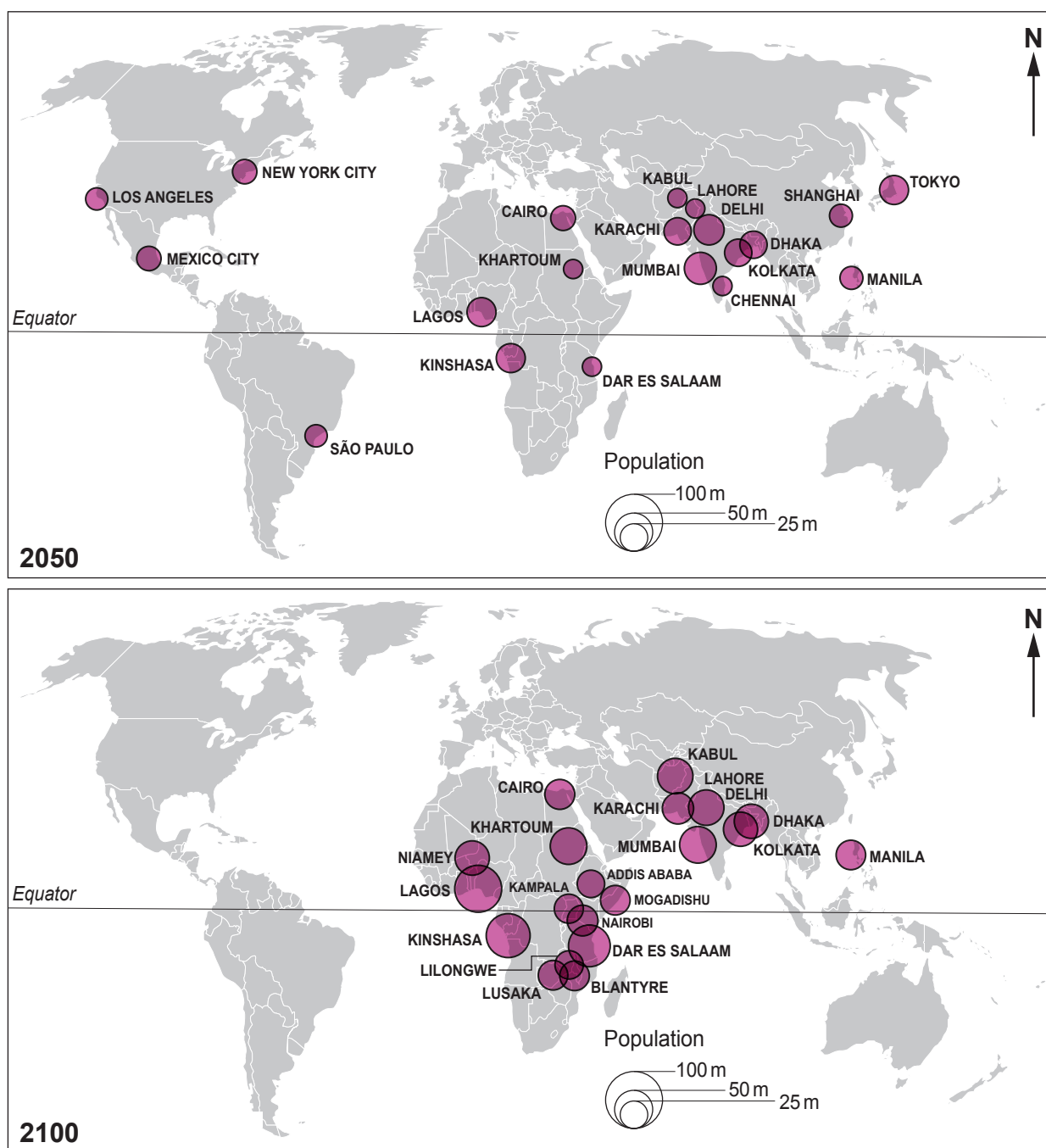
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Theme 1: Changing Places – Changing Economies

Answer **all** questions.

1. (a) Study **Figure 1.1**.

Figure 1.1: Expected location of the world's largest cities in 2050 and 2100



- (i) Describe the pattern of expected changes in the location of the world's largest cities shown in **Figure 1.1**. [4]

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- (ii) One of the world's fastest growing cities is estimated to be Lagos in Nigeria.

| Year | Population |
|------|------------------------|
| 2022 | 15 million |
| 2035 | 24 million (estimated) |

Calculate the estimated percentage population increase for Lagos between 2022 and 2035. Show your working. [2]

..... % increase



(iii) Explain **two** reasons why cities in LICs and/or NICs are growing so rapidly. [4]

Reason 1:

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Reason 2:

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(b) Describe how a city in a LIC/NIC you have studied is tackling housing problems. [4]

Name of city in LIC/NIC

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- (c) (i) Trade plays a very important role in the development of a country.

Complete the sentences using words from the box below.

[4]

| | | | |
|---------|------------|-------------|-----------------|
| tariffs | imports | trade blocs | exports |
| quotas | fair trade | subsidies | trade embargoes |

Goods which are sold to other countries are called

Goods bought from other countries are called

Taxes on goods brought into the country are called

Trading partnerships between groups of countries are called

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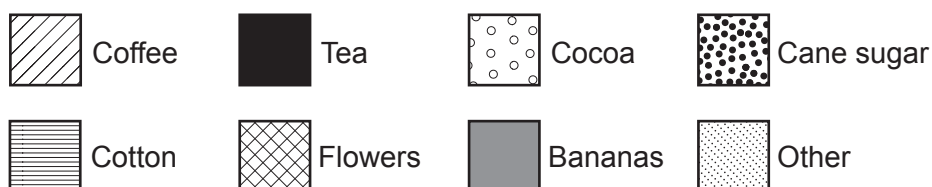
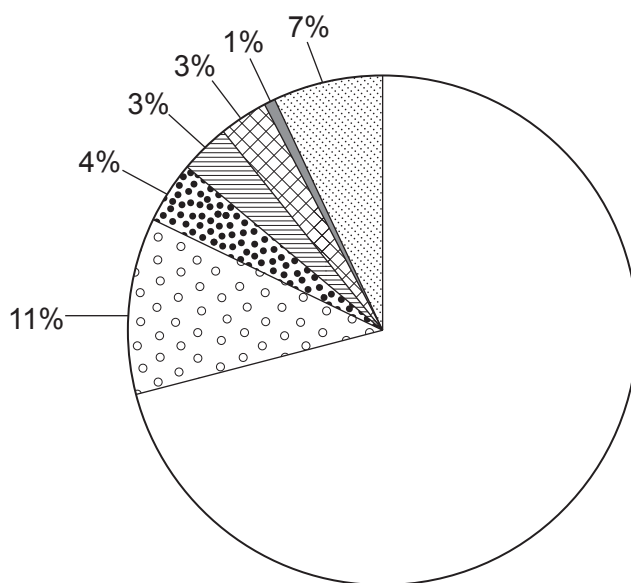
Study **Figure 1.2**. Fair Trade products are often seen in shops and online.

Examiner
only

(ii) Complete the pie chart to show the following products. [2]

Figure 1.2: Fair Trade products

| | |
|------------|---------|
| Coffee 50% | Tea 21% |
|------------|---------|



(iii) Explain why trade can help to reduce global inequalities. [4]

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- (d) Multinational companies (MNCs) locate all over the world. One example is Unilever. Study **Figure 1.3**.

Figure 1.3: Some examples of Unilever products sold worldwide



Selling Unilever products in Sri Lanka, Asia



Unilever offices in Bangkok, Thailand



Unilever factory in Beijing, China



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Additional space for Question 1(d) only:

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End of Question 1

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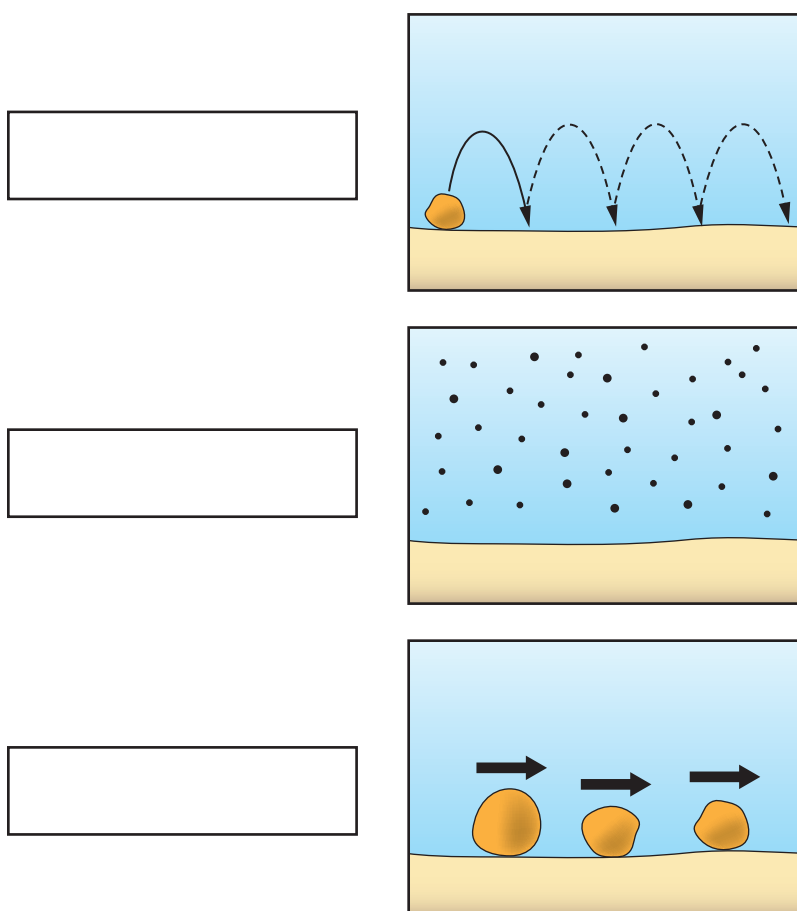


Theme 2: Changing Environments

Answer **all** questions.

2. (a) Study **Figure 2.1**.

Figure 2.1: How the sea transports material



(i) Add the correct labels from the box below to complete **Figure 2.1**.

[3]

hydraulic action

traction

suspension

attrition

saltation

abrasion



(ii) Name **one** coastal landform created by the process of deposition. [1]

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(iii) Give **one** reason why rock type (geology) can affect the rate of coastal erosion. [2]

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(b) (i) For **one** country you have studied, describe the impacts of climate change on coastal communities. [4]

Name of country:

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- (ii) Give **two** reasons why 'hold the line' is not always popular when managing coastlines. [4]

Reason 1:

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Reason 2:

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- (c) (i) Give **one** reason why urbanisation causes flooding. [2]

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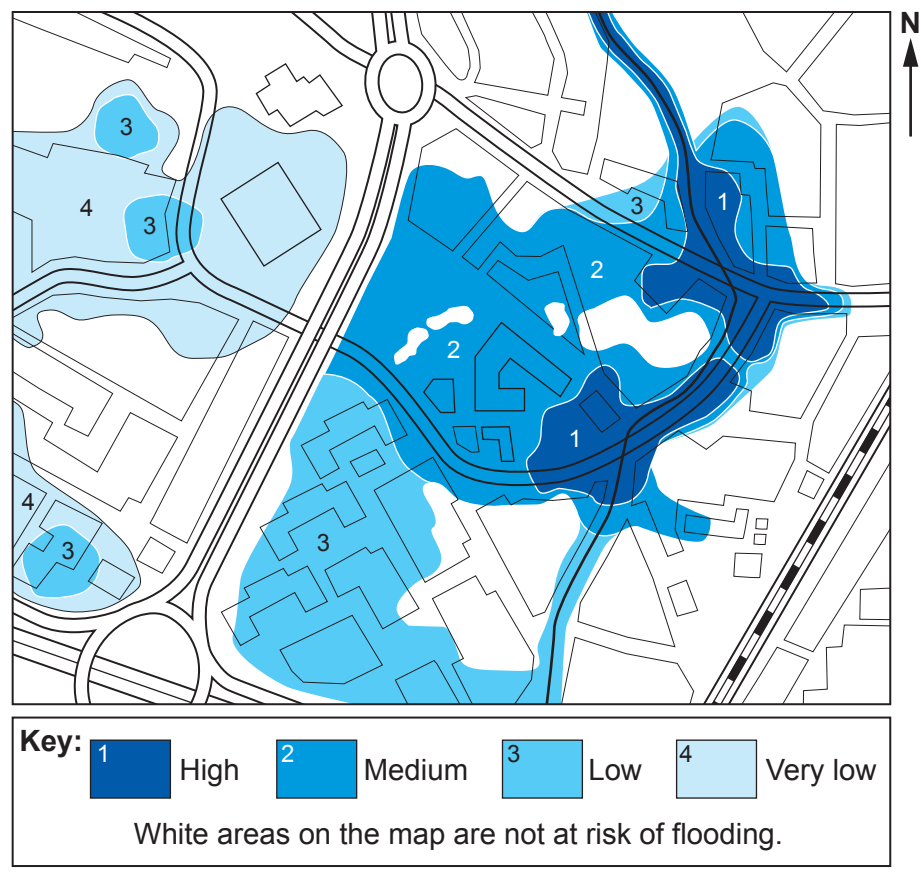
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The town of Slough has suffered from river flooding many times in recent years.

Study **Figure 2.2** and the **OS Map** in the **Resource Folder**.

Figure 2.2: Flood risk map for Area A shown on the OS Map.



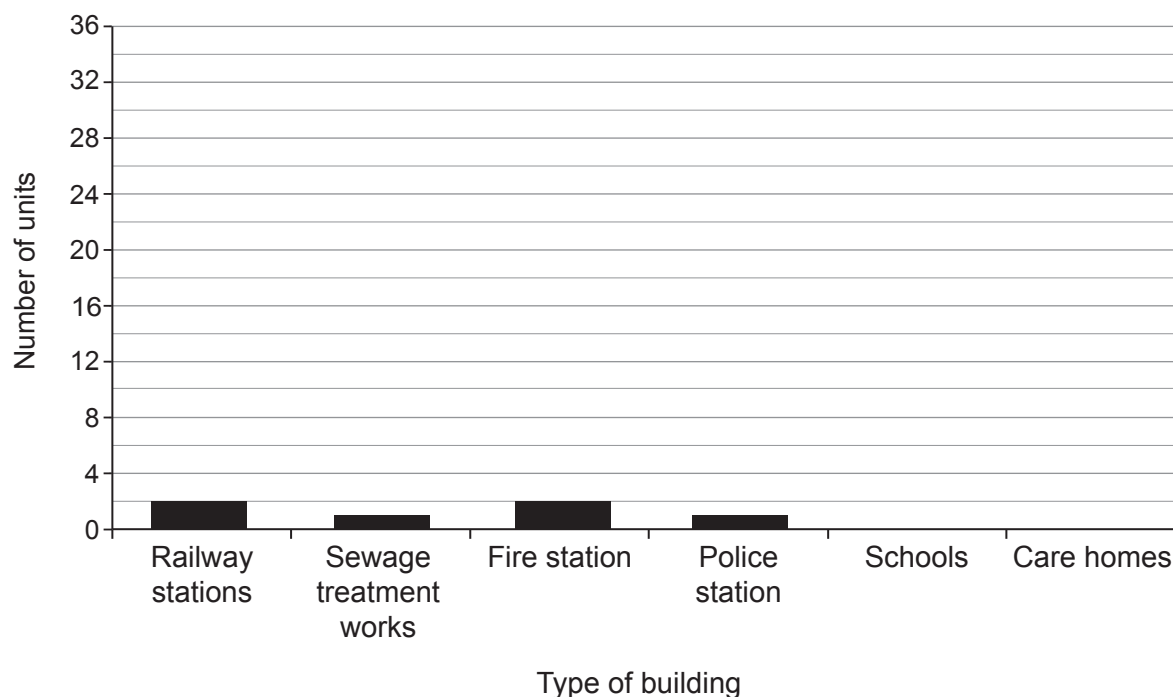
- (ii) Use the information in both **Figure 2.2** and the **OS Map** to decide if each of the following statements are **True** or **False**. [4]

| | True (T) / False (F) |
|--|----------------------|
| The Academy at 965794 is in a high flood risk zone. | |
| The hotel at 962797 is not at risk of flooding. | |
| The greatest risk of flooding is in the west of Area A. | |
| The houses at 963793 are at a lower risk of flooding than those at 967796. | |



Study **Figure 2.3**.

Figure 2.3: Some important buildings in Slough at risk of flooding.



- (iii) Complete **Figure 2.3** by drawing bars to show the following data for care homes and schools. [2]

| | Number of buildings |
|------------|---------------------|
| Schools | 35 |
| Care homes | 2 |

- (iv) Suggest **two** other appropriate techniques that could be used to display the data in **Figure 2.3**. [2]

Technique 1:

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Technique 2:

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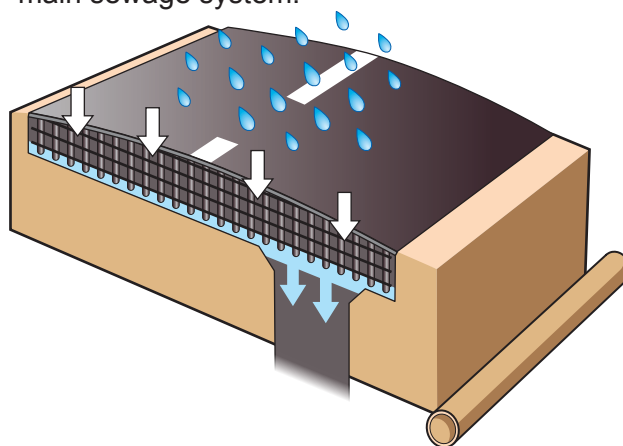
(d) Study **Figure 2.4**.

Figure 2.4: Slough Flood Relief Scheme

Fact Box

- Slough has received a government grant of about £6 million.
- Some of the money will be spent on developing “sponge” road surfaces that soak up surface water.
- The water is stored in underground tunnels and tanks.
- Money will also be spent on planting vegetation on the side of roads that will soak up water.

The sponge roads allow the water to soak down into the road, where it is channelled in to manholes that funnel it away from the main sewage system.



- (i) Suggest why this scheme could be described as a sustainable solution to Slough's flood problem.

[4]

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- (ii) Study **Area B** on the **OS Map** in the **Resource Folder**.
Analyse the economic consequences if **Area B** on the map was to flood.
Use map evidence in your answer. [4]

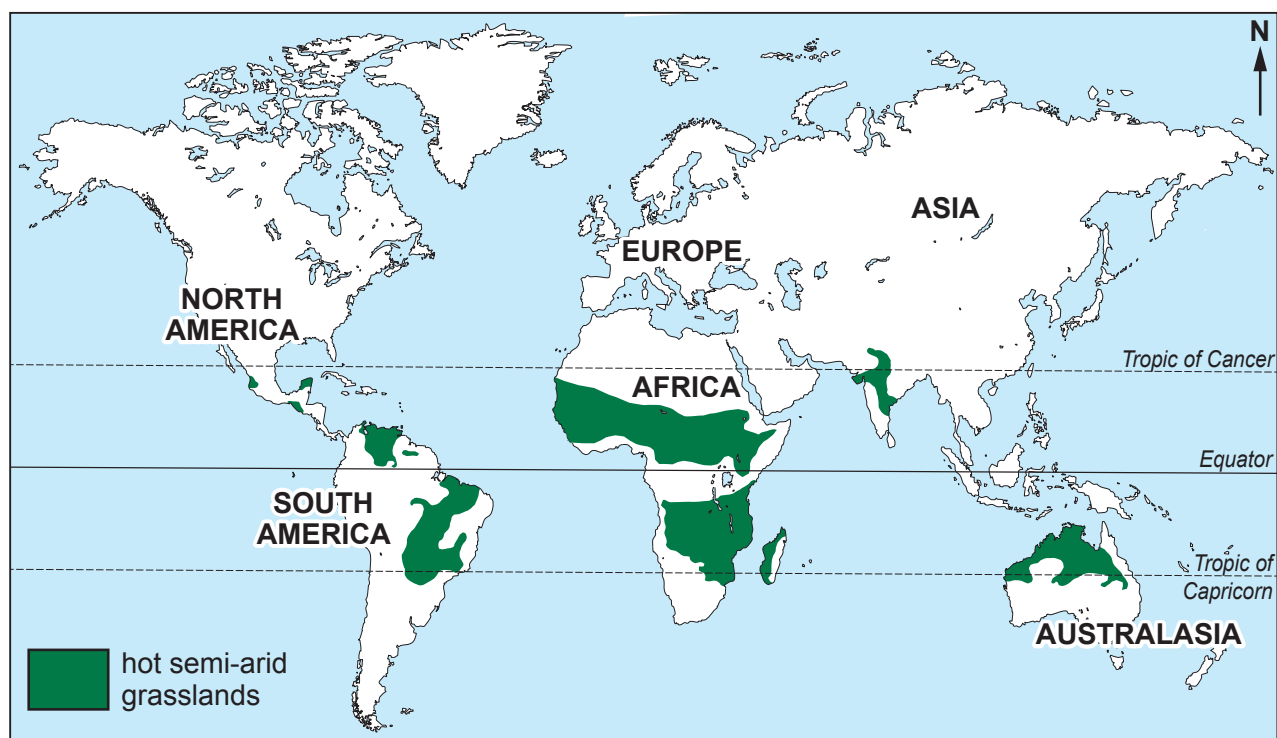
Additional space for Question 2(d)(ii) only:

End of Question 2



Theme 3: Environmental ChallengesAnswer **all** questions.

3. (a) One major global biome is the hot semi-arid grassland.

Study **Figure 3.1**.**Figure 3.1: Distribution of hot semi-arid grasslands.**

- (i) Describe the distribution of hot semi-arid grasslands shown in **Figure 3.1**. [3]

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- (ii) Describe how vegetation adapts to survive the climate of hot semi-arid grasslands. [4]

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- (iii) Tick (✓) the box below that gives the correct definition of biodiversity. [1]

| | Tick (✓) |
|--|----------|
| A very large ecosystem | |
| The non-living parts of an ecosystem | |
| The variety of living things in an ecosystem | |
| The variety of weather conditions | |



- (iv) For another ecosystem you have studied (other than hot semi-arid grasslands), explain how biodiversity has been affected by human activity. [4]

Name of ecosystem:

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- (b) Describe the characteristics of a **small-scale** ecosystem in the UK you have studied. [3]

Name of ecosystem:

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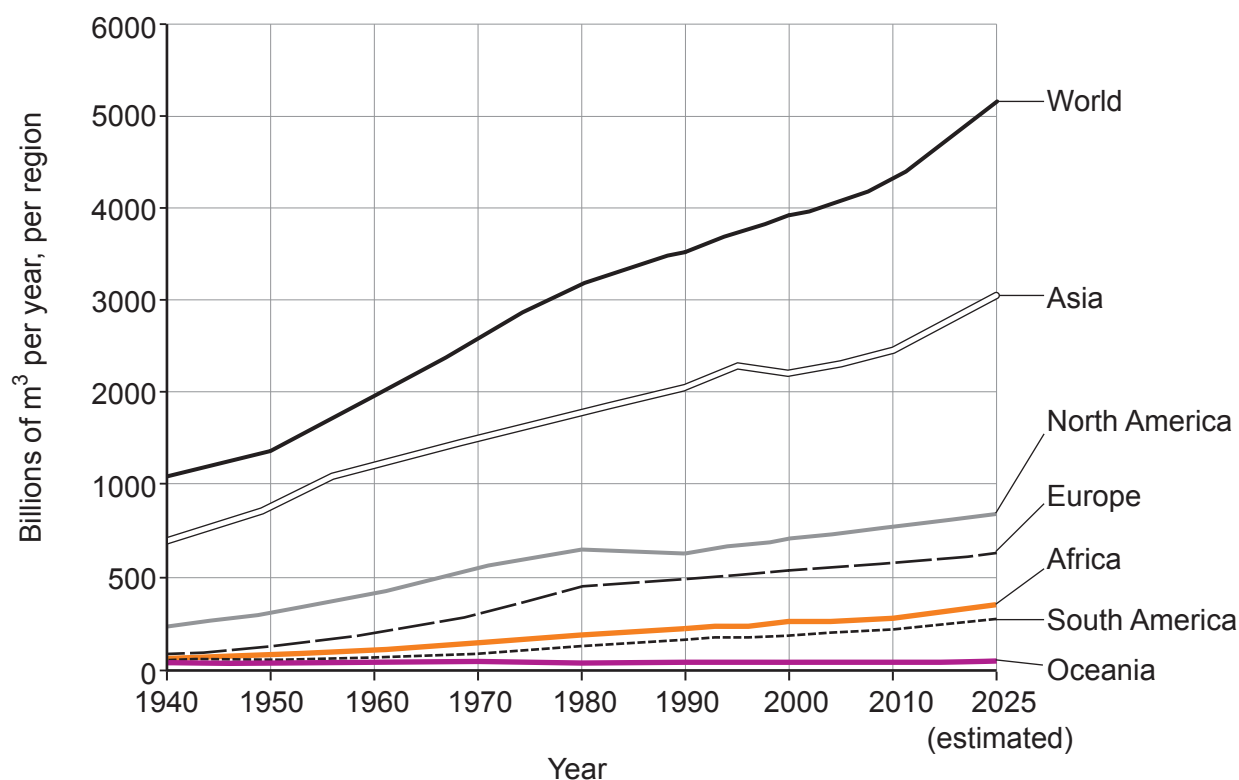
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(c) Study **Figure 3.2**.

Figure 3.2: Global Water Consumption 1940–2025
(by region, in billions of m^3 per year)



(i) **Circle** the correct answer in each of the following statements.

[4]

The region with the lowest water consumption in 2010 was
(**Africa** / **South America** / **Oceania**).

In 1990, water consumption in Asia was (**1000** / **2000** / **3000**) billion m^3 per year.

Between 1990 and 2000 total world water consumption increased by approximately (**500** / **1000** / **1500**) billion m^3 .

The greatest increase in water consumption between 2010 and 2025 will be in the continent of (**North America** / **Europe** / **Asia**).



- (ii) Give **one** reason why a line graph is the most appropriate technique to show the information in **Figure 3.2**. [1]

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- (iii) Explain why population growth leads to increased demand for water. [4]

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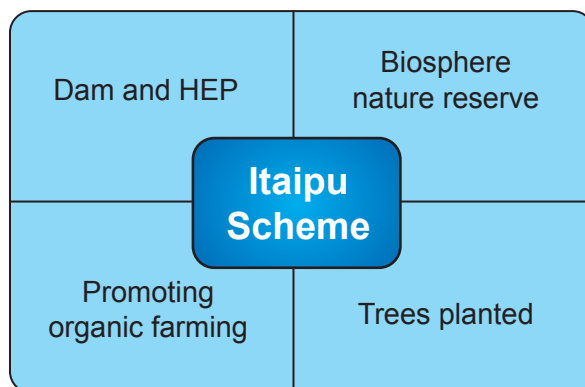
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(d) Study **Figure 3.3**.

Figure 3.3: The Itaipu Dam and Hydroelectric (HEP) Scheme on the border of Brazil, Paraguay and Argentina, in South America.

Location of Itaipu Dam



Fact Box: Itaipu Dam and HEP Scheme

- The dam supplies 90% of Paraguay's electricity and 16% of Brazil's electricity.
- Large areas of forest were cut down and replaced with plantations of corn and soya.
- Some 1200 farms near the dam use organic methods.
- Over 44 million trees were replanted, increasing biodiversity and providing new habitats for endangered species such as the jaguar.
- Trees were planted around the dam to help reduce sediment in the reservoir.
- Local communities were involved.
- World's first HEP plant to be made a UNESCO Biosphere Reserve.

Itaipu Biosphere Reserve



Aerial view of the Itaipu Dam



Additional space for Question 3(d) only:

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End of Question 3

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