

1312/3H

Geography A

Paper 3H

Higher Tier

Monday 14 June 2010 – Morning

Time: 1 hour 45 minutes

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[illegible]
$$\overline{\text{Nil}}$$

Resource Booklet
Ordnance Survey (OS) map extract

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper.

Answer **ALL** the questions. Write your answers in the spaces provided in this question paper.

Do not use pencil. Use blue or black ink.

Some questions must be answered with a cross in a box (☒)

If you change your mind about an answer, put a line through the box (~~⊗~~) and then mark your new answer with a cross (⊗).

Include diagrams in your answers where these are helpful.

Do not return the Resource Booklet and OS map extract with the question paper.

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2).

There are 4 questions in this question paper. The total mark for this paper is 80.

There are 20 pages in this question paper. Any blank pages are indicated.

The following abbreviations are used throughout this paper:

MEDC: More Economically Developed Country

LEDC: Less Economically Developed Country

EU: European Union.

You will be assessed on your ability to organise and present information, ideas, descriptions and arguments clearly and logically, including your use of grammar, punctuation and spelling.

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Answer ALL the questions. Write your answers in the spaces provided.

1. (a) Study Figure 1(a). It shows how birth and death rates change over time.

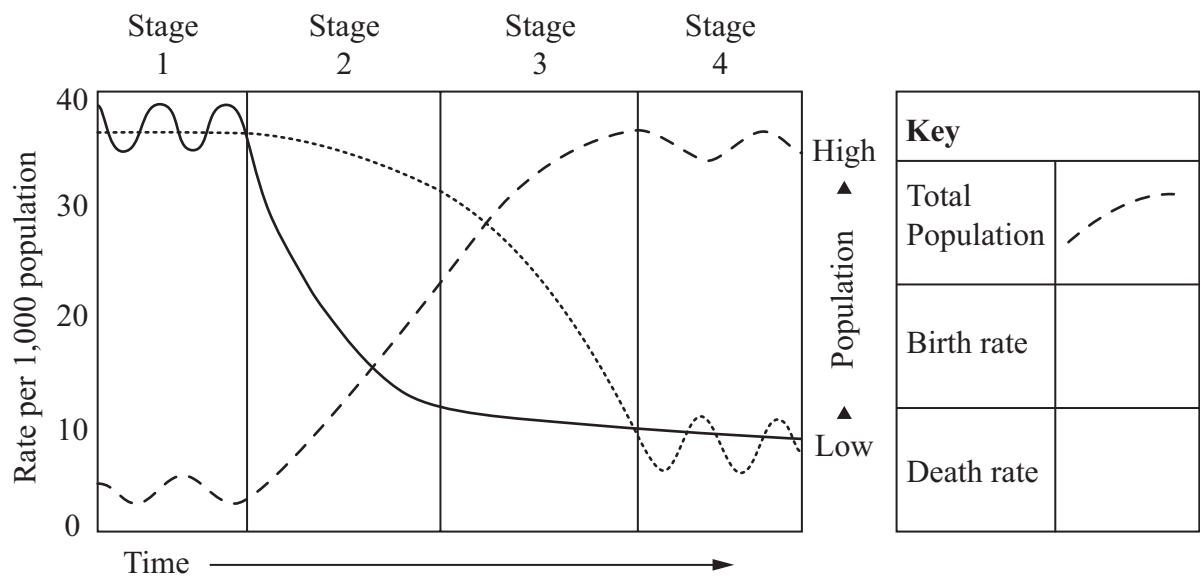


Figure 1(a)

- (i) What is the name of the model shown in Figure 1(a)?
..... (1)
- (ii) Complete the key on Figure 1(a). (1)
- (iii) The population increased rapidly in Stage 2.
Explain why.
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..... (4)



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(b) Study the Ordnance Survey (OS) map extract of Welwyn Hatfield District, Hertfordshire.

(i) Give the six figure grid reference for the bus station in Welwyn Garden City.

.....
(1)

(ii) What is the distance, to the nearest kilometre, along the railway line from the railway station in Welwyn Garden City to the Welwyn North railway station?

.....
(1)

(iii) Find the village of Tewin in grid square 2714.

Name **two** services shown on the map that can be found in this village.

Service 1

Service 2

(1)

(iv) Find Welham Green in grid square 2305.

Describe and explain the shape of this settlement.

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(3)



(c) Study Figure 1(b).
It is a choropleth map.
It shows the population density for areas in Welwyn Hatfield District.

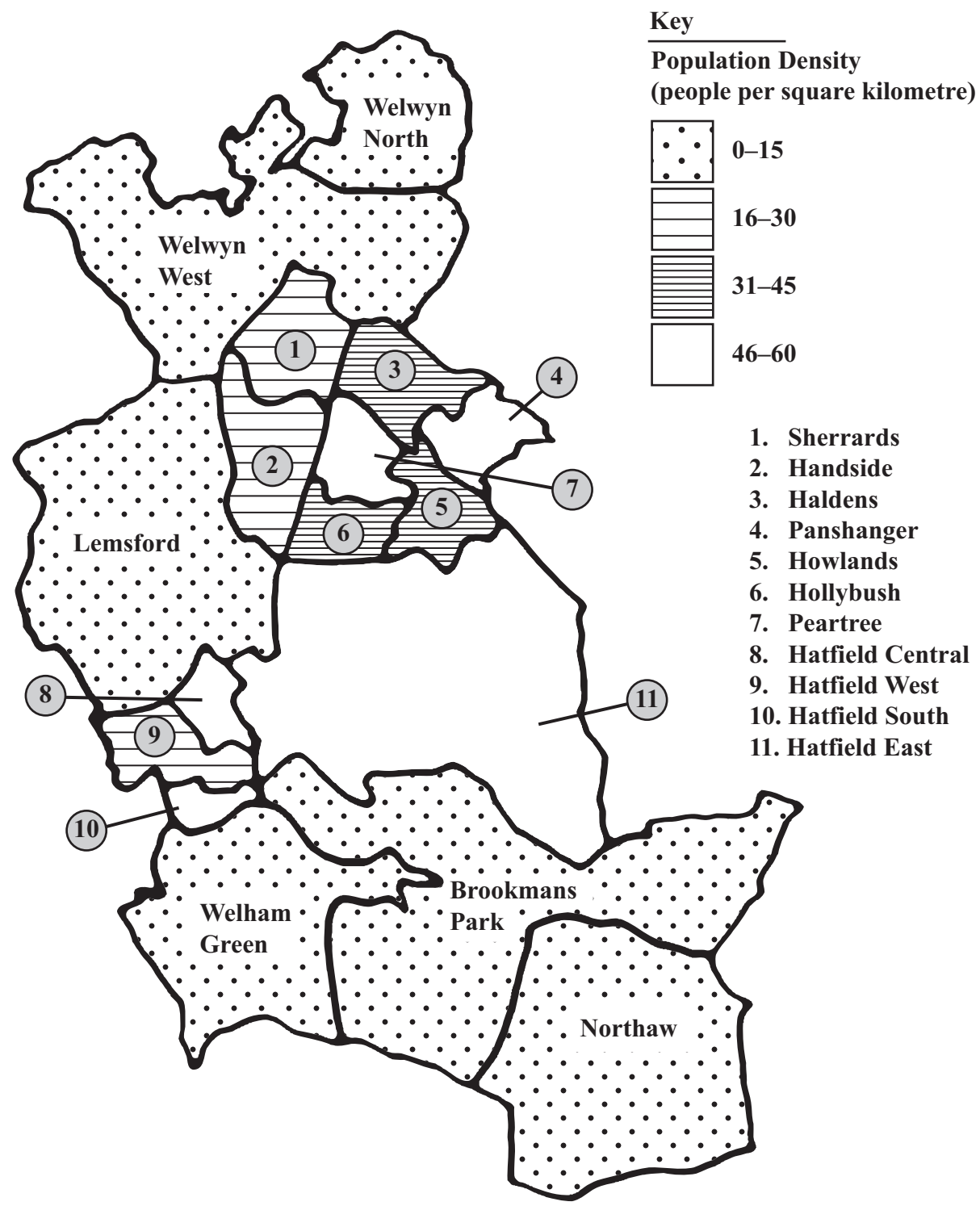


Figure 1(b)



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- (i) Complete the key on Figure 1(b) for a choropleth map.
Shade the 46–60 box appropriately. **(1)**
- (ii) Complete the map by shading in the missing areas with the densities shown in the table.

Area	Population density (people per square kilometre)
Hatfield Central	56
Hatfield East	17
Panshanger	36
Peartree	53
Hatfield South	48

- (iii) Describe the pattern of population density shown on Figure 1(b).

[illegible]

(4)

Q1

(Total 20 marks)



2. (a) Study Figure 2(a).
It shows the coastal landform of Orford Ness in Suffolk.
Orford Ness has been formed by longshore drift.

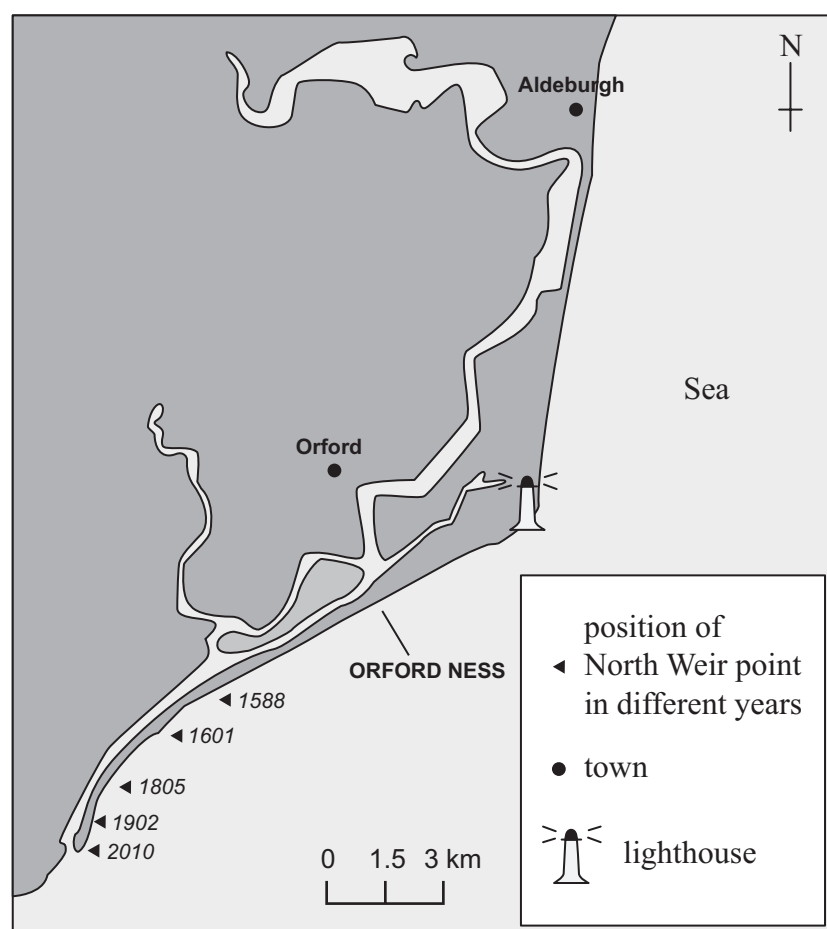


Figure 2(a)

- (i) Orford Ness is a coastal landform. Name the type of landform.

..... (1)



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blank

(ii) Longshore drift is the process that formed Orford Ness.

What is longshore drift?

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(3)

(iii) On Figure 2(a), mark the direction of longshore drift with an arrow.

(1)

(b) The sea erodes the coast in a number of different ways.
Explain how the sea erodes the coast.

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(4)



(c) Study Figure 2(b). It is a diagram of a river.

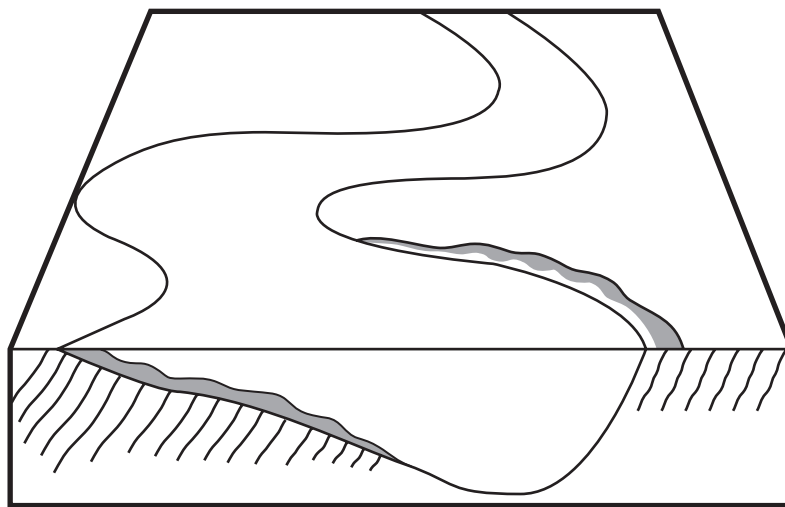


Figure 2(b)

(i) Clearly mark on the diagram:

1. where the velocity (speed) of the river is likely to be fastest
2. the river cliff
3. the slip off slope.

(2)

(ii) Explain your answers to part (c)(i).

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(5)

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- (d) Study Photograph A in the Resource Booklet.
It is of an area of the Alps.
Landform P is a pyramidal peak.

Explain how a pyramidal peak is formed.

[illegible]

(4)

Q2

(Total 20 marks)





3. (a) Anticyclones bring different weather conditions to the UK in the summer and the winter. What weather conditions do they bring to the UK in the summer? (3)	Leave blank
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(b) There is relief rainfall in the western areas of England, Scotland and Wales.
Draw an annotated diagram(s) to explain the process of relief rainfall.

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blank

(4)



H 3 6 5 2 4 A 0 1 1 2 0

(c) Study Figure 3(a) in the Resource Booklet.
It shows tropical rainforests in South America.

(i) What is the approximate area of tropical rainforest shown on the map?
Put a cross (☒) in the correct box.

- ☐ 2 million sq km
- ☐ 8 million sq km
- ☐ 14 million sq km
- ☐ 20 million sq km

(1)

(ii) Describe the distribution of tropical rainforests shown on Figure 3(a) in the Resource Booklet.

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(3)

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blank



- (d) Study Figure 3(b).
It shows a coniferous tree in the taiga.
The boxes name four ways that the tree has adapted to the natural environment.
Complete the boxes on Figure 3(b), giving reasons for the adaptations.

Adaptation:
thin bendy trunk

Reason for adaptation:

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Adaptation:
needle shaped leaves

Reason for adaptation:

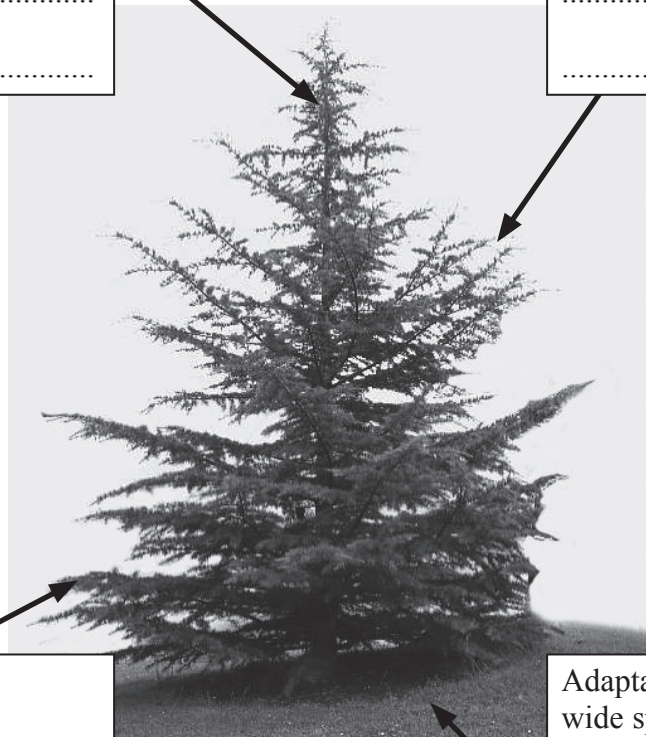
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Adaptation:
sloping branches

Reason for adaptation:

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Adaptation:
wide spreading roots

Reason for adaptation:

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Figure 3(b)

(4)



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(e) Choose a tropical rainforest area you have studied.

Chosen tropical rainforest area

Describe and explain how the tropical rainforest has been exploited.

[illegible]

(5)

Q3

(Total 20 marks)



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4. (a) Study Figure 4(a). It shows the employment structure of three countries.

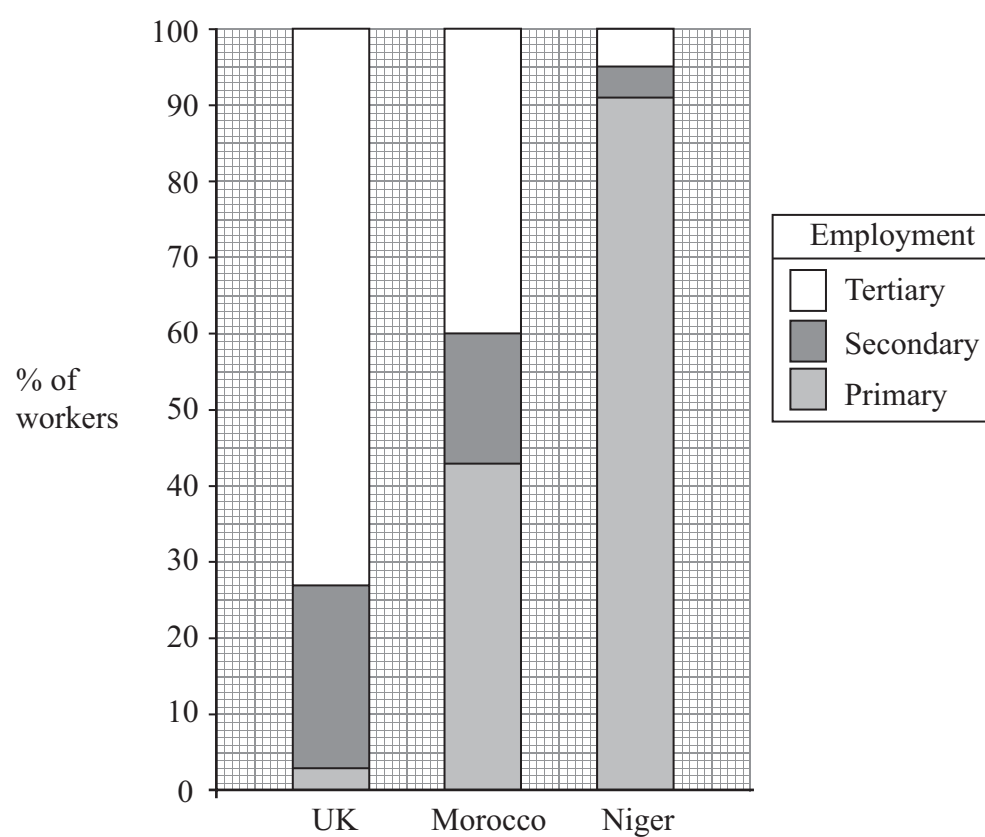


Figure 4(a)

- (i) What percentage of Morocco's workers are in tertiary employment?

..... **(1)**

- (ii) Compare the employment structure of the UK with that of Niger.
Use data in your answer.

.....

 **(3)**



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- (iii) There are differences in the employment structures of the UK, an MEDC, and of Niger, an LEDC.
Give reasons for the differences.

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(4)

- (b) Farming systems show different characteristics.

- (i) What is the difference between subsistence and commercial farming?

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(1)

- (ii) State **two** characteristics of organic farming.

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(2)





(c) Look again at the OS map extract. Find grid squares 2008 and 2009. Modern high tech industries are located here. Explain the factors that have affected their location. Use map evidence in your answer. (4)	Leave blank
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- (d) Intensive wet rice farming is carried out in many LEDCs.
Choose a study you have made of wet rice farming in an LEDC.

Chosen study of wet rice farming

Explain the changes that are taking place or have taken place in your chosen study of wet rice farming.

This image shows a full page of a handwriting practice worksheet. It consists of multiple sets of three horizontal dotted lines, providing a guide for letter height and placement. The lines are evenly spaced across the entire page, leaving ample room for writing practice. There is no text or other markings on the page.

(5)

Q4

(Total 20 marks)

TOTAL FOR PAPER: 80 MARKS

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