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Rewarding Learning

General Certificate of Secondary Education
2010

Geography

Paper 2
Higher Tier

[G3604]

G3604

THURSDAY 17 JUNE, AFTERNOON
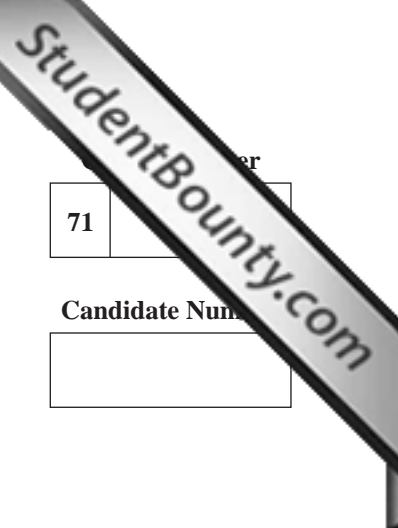
TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces
provided at the top of this page.
Write your answers in the spaces provided in this question paper.
Answer **all three** questions
You are provided with an O.S. map for use with **Question 3**.
Do not write your answer on this map.

INFORMATION FOR CANDIDATES

The total mark for this paper is 126, including a maximum of 6 marks
for quality of written communication.
Figures in brackets printed down the right-hand side of pages indicate
the marks awarded to each question or part question.
   A ruler is needed for use with Question 3.

For Examiner's use only	
Question Number	Marks
1	
2	
3	
QWC	
Total Marks	

6277

Theme D: Population and Resources

1 **(a)** Study **Table 1**, which shows the population age structures of various countries in 2007. Answer the questions that follow.

Table 1

Level of Development	Country	% of people aged 0–14	% of people aged 15–64	% of people aged over 65
LEDC	Ethiopia	50	48	2
LEDC	Nigeria	45	52	3
MEDC	Germany	15	69	
MEDC	Japan	10	70	20

Source: Principal Examiner

(i) State the name of the country with the highest percentage of youth dependents.

_____[1]

(ii) Complete **Table 1** to show the % of people aged over 65 in Germany. [1]

(iii) State the meaning of the term **population structure**.

_____

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_____[2]

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(iv) Using examples from **Table 1**, show how the level of development influences both the youth and aged dependent populations.

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_____[6]

(v) Describe the shape of a population pyramid that shows evidence of **in-migration**.

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(b) Study **Fig. 1**, which shows some predictions about future population growth. Answer the questions which follow:

Key predictions on global population growth.
Global population rises to 9.3 billion by 2050.
MEDC's population remains the same at 1.2 billion by 2050.
The Earth's resources will be placed under even greater pressure by 2050.

Source: Principal Examiner

Fig. 1

(i) Underline the correct population total for LEDCs by 2050.

6.1 billion   **8.1 billion**   **9.3 billion**   [1]

(ii) State fully **one** reason why the population of MEDCs is likely to remain the same by 2050.

_____

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_____[3]

(iii) State the term which means that the **number of people in an area is low compared to the available resources**.

_____[1]

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(iv) Using a case study of population change in a LEDC that you have studied, describe how the **birth rate and death rate** have changed over time.

LEDC _____

Change in birth rate and death rate

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_____ [4]

[Turn over

(c) Study **Fig. 2** which shows the views of people migrating. Answer the questions which follow.
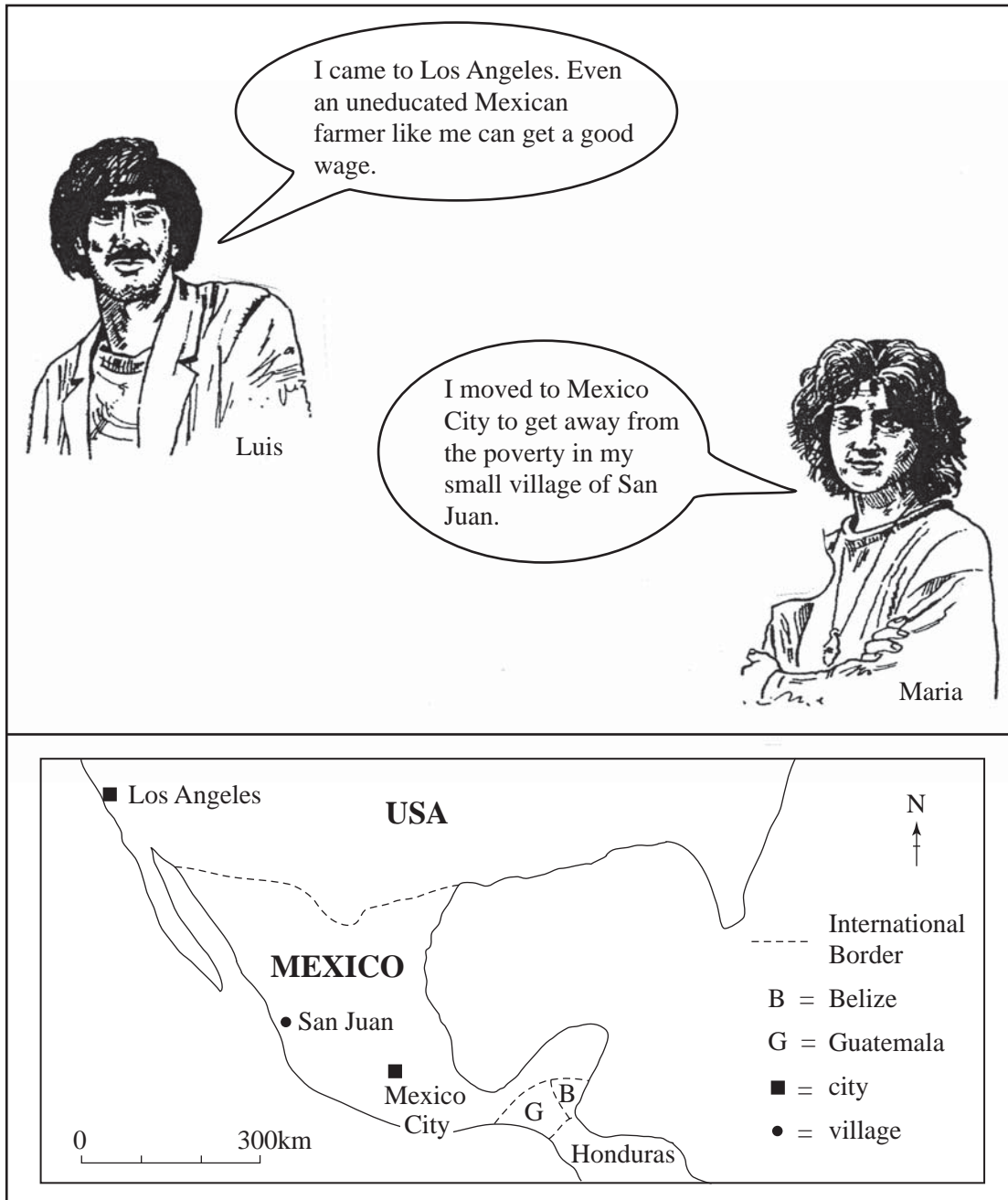
Source: Principal Examiner

Fig. 2

(i) State the direction Los Angeles is from Mexico City.

_____[1]

(ii) Name the person who is NOT an international migrant.

_____[1]

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(iii) Migration can bring many impacts to an area. State fully **one negative** impact it can bring.

_____

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_____ [3]

(d) Using a case study of population density in an E.U. country (other than the British Isles) state fully how **one** physical and **one** economic factor affects an area of low density within that country.

Name of E.U. country _____

_____

_____

_____

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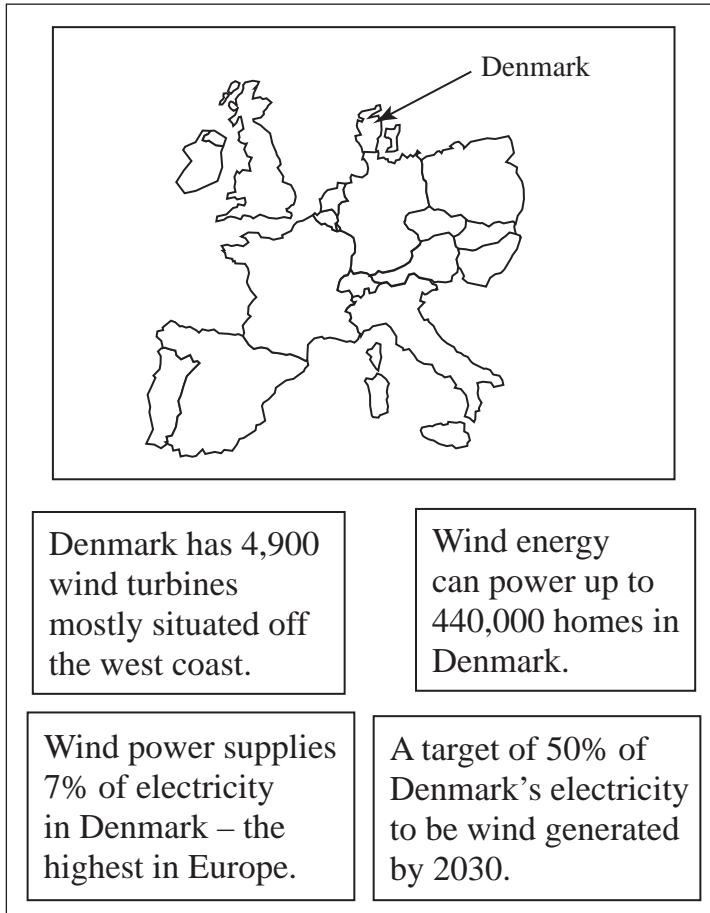**[Turn over**

(e) Study **Fig. 3** which shows statements on how renewable energy is being used in Denmark. Answer the questions that follow.

| Denmark has 4,900 wind turbines mostly situated off the west coast. | Wind energy can power up to 440,000 homes in Denmark. |

| Wind power supplies 7% of electricity in Denmark – the highest in Europe. | A target of 50% of Denmark's electricity to be wind generated by 2030. |

Source: Principal Examiner

Fig. 3

(i) Name **one** renewable resource other than wind power.

_____[1]

(ii) State the meaning of the term **resource depletion**.

_____

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_____[2]

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(iii) Using **Fig. 3**, describe and explain how Denmark is promoting a
sustainable approach to energy use.

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_____[5]

[Turn over

2 **(a)** Study **Fig. 4** which shows an advertisement for Fairtrade fortnight in 2010. Answer the questions which follow.

© *Fairtrade Foundation http://www.fairtrade.org.uk/thebigswap*

Fig. 4

(i) State the meaning of the term **Fairtrade**.

_____

_____

_____

_____[2]

(ii) Identify **one** Fairtrade food item **from Fig. 4**.

_____[1]

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(iii) State fully **one** advantage Fair trade can bring to LEDCs.

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_____[3]

(b) Study **Fig. 5** which names some types of aid available to LEDCs.
Answer the questions which follow.

- Bilateral Aid
- Aid from Voluntary Organisations
- Tied Aid
- Multilateral Aid

Fig. 5

(i) Choose **two** types of aid from **Fig. 5** and describe how each operates.

1. _____

_____

_____

_____

_____

2. _____

_____

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[6]

(ii) State fully **one** reason why MEDCs give aid to LEDCs.

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(iii) State **three** disadvantages aid can cause in LEDCs

1. _____

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2. _____

_____

3. _____

_____
[3]

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(Questions continue overleaf)

[Turn over

(c) Study **Fig. 6** and **Table 2** which show a scatter graph and table comparing GNP with Literacy rate for ten countries which are named in the table. Answer the questions which follow.
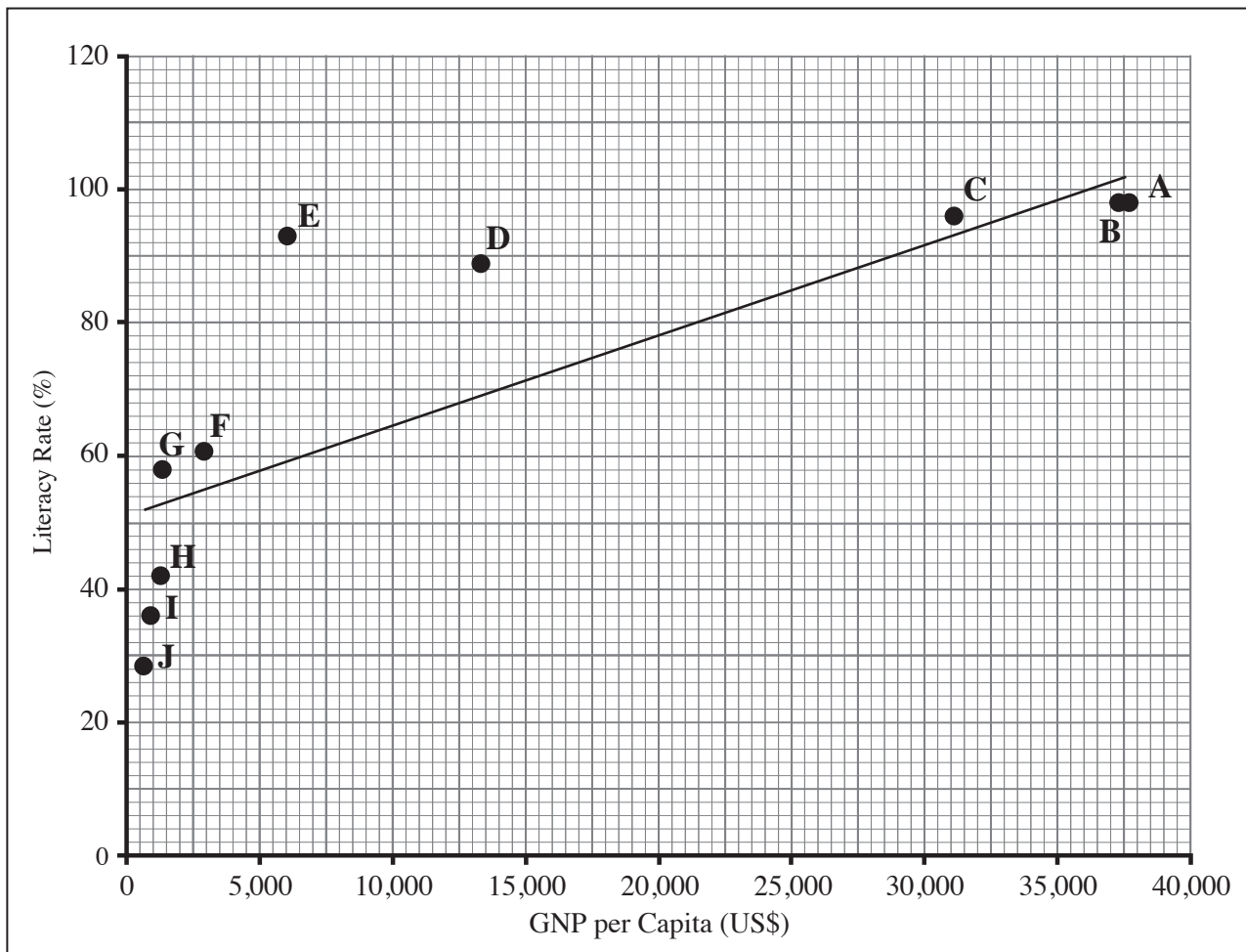
Fig. 6

Table 2

	Letter on graph	Country
▫ Literacy rate shows the percentage of people in the country who can read and write. ▫ GNP per capita gives an indication of the average annual earnings of people in a country.	A	Austria
	B	Ireland
	C	Spain
	D	Turkey
	E	China
	F	India
	G	Ghana
	H	Gambia
	I	Ethiopia
	J	Niger

(i) State the name of country in **Fig. 6** with the **lowest** literacy rate.

_____[1]

(ii) Describe the relationship shown in **Fig. 6** between GNP and
Literacy Rate.

_____

_____

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_____[4]

(iii) Classify the two indicators from **Fig. 6** as economic or social.

GNP =   _____ indicator

Literacy rate = _____ indicator   [2]

(iv) Explain why it is important to use both social and economic
indicators when measuring development.

_____

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_____[3]

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[Turn over

(d) Study **Fig. 7** which shows an area called Silicon Glen, where many hi-tech industries choose to locate in the U.K. Answer the questions which follow.
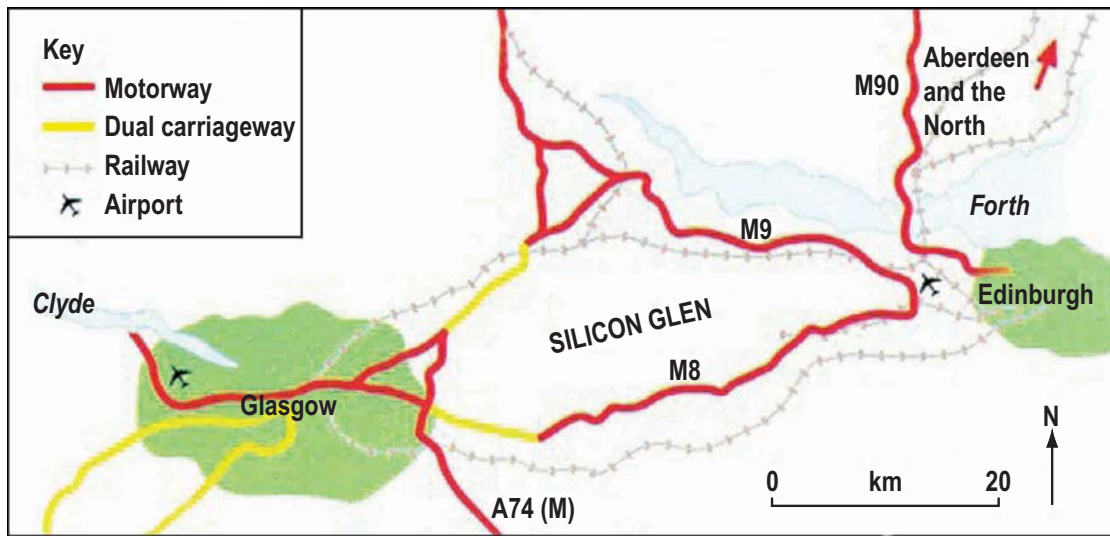

Figure from Complete Geography by Simon Chapman et al (OUP, 1998). Copyright © Oxford University Press 1998, reprinted by permission of Oxford University Press

Fig. 7

(i) Name the motorway which goes north out of Edinburgh

_____[1]

(ii) State fully **one** reason why Silicon Glen might attract hi-tech industries.

_____

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_____[3]

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(iii) State the meaning of the term **hi-tech industry**.

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_____[2]

(e) Name **one** transnational corporation (TNC) you have studied and state fully **two** reasons why it changed the location of its factories from a MEDC to a LEDC.

Name of TNC _____

Reasons for moving

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[6]

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Theme F: Settlements and Change

3 **(a)** Study the Ordnance Survey extract of Durham in England and answer the questions which follow.

   (i) State and explain **one** factor which may have influenced the original choice of this site for Durham (GR 2742).

   Factor _____[1]

   _____

   _____

   _____

   _____

   _____[3]

   (ii) State the straight line distance from the Park and Ride terminus at 307446 to the bus and coach station in the centre of Durham at 269426.

   _____ km   [2]

   (iii) Suggest **one** reason why GR 3044 is a good location for a Park and Ride facility.

   _____

   _____

   _____

   _____[2]

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[Turn over

(b) Study **Fig. 8** which gives information about the Park and Ride facilities in Durham. Answer the question which follows.

Belmont
Park and Ride
(GR 3044)

Three successful Park and Ride sites were built on the outskirts of Durham in 2005.

1.2 million people used the service in the first 2 years and numbers are increasing all the time.

There are 1000 parking spaces at the sites and frequent buses take people into the city centre 6 days per week.

There are now more short term expensive car-parks in the city centre.

Durham City Council are planning to extend the size of the Park and Ride car-parks to hold more cars and also to build 2 new Park and Ride facilities for other areas of the city.

Transport in Durham is now more sustainable because of Park and Ride.

© Oliver Dixon http://geograph.org.uk/photo/373392

Fig. 8

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(i) Explain how the Park and Ride facilities help ease traffic in the centre of Durham.

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_____

_____[3]

(ii) Explain how the Park and Ride facilities help Durham become a more sustainable city.

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_____[3]

[Turn over

(iii) Arrange the following settlements in order of size beginning with the largest.

Durham (GR 2742)   Sherburn (GR 3142)

Edmondsley (GR 2349)   Sacriston (GR 2447)

Table 3

Rank Order	Settlement
1	
2	
3	
4	

[4]

(iv) State the term used to describe the arrangement of settlements in order of importance in a given area.

_____[1]

(v) Complete **Table 4** to show which services are available in Sacriston (GR 2447).

Table 4

Settlement	Post Office	Church	Public house	2 or more roads	Bus Station	School	Hospital
Durham	✓	✓	✓	✓	✓	✓	✓
Sacriston	✓			✓			
Edmondsley	✓		✓	✓			

[3]

(vi) State fully why there is a variation in the number and variety of services in the settlements in **Table 4**.

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_____[5]

[Turn over

(c) Study **Table 5** which shows the urban population as a percentage of the total population in different areas. Answer the questions which follow.

Table 5

Urban Population as a Percentage of the Total Population			
	1950	**1990**	**2030 (estimated)**
MEDCs	55	73	84
LEDCs	18	33	56

© Tables from Geog GCSE by Anna King et al (OUP, 2006), copyright © Oxford University Press 2006, reprinted by permission of Oxford University Press.

(i) Compare how urbanisation is changing over time as shown in **Table 5**.

_____

_____

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_____

_____ [4]

(ii) State fully **one** reason for urbanisation in LEDCs.

_____

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_____ [3]

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(d) Many inner city areas have been redeveloped and improved. Evaluate **two** measures used to improve an inner city area you have studied.

Name of Inner City Area_____

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_____[6]

Quality of Written
Communication

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THIS IS THE END OF THE QUESTION PAPER
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