

# X208/12/01

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NATIONAL TUESDAY, 8 MAY  
QUALIFICATIONS 9.00 AM – 10.30 AM  
2012

GEOGRAPHY  
HIGHER  
Paper 1  
Physical and  
Human Environments

**Six** questions should be attempted, namely:

**all four** questions in **Section A** (Questions 1, 2, 3 and 4);

**one** question from **Section B** (Question 5 **or** Question 6);

**one** question from **Section C** (Question 7 **or** Question 8).

Write the numbers of the **six** questions you have attempted in the marks grid on the back cover of your answer booklet.

The value attached to each question is shown in the margin.

Credit will be given for appropriate maps and diagrams, and for reference to named examples.

Questions should be answered in sentences.

**Note** The reference maps and diagrams in this paper have been printed in black only: no other colours have been used.



## SECTION A: Answer ALL four questions from this section.

## Question 1: Lithosphere

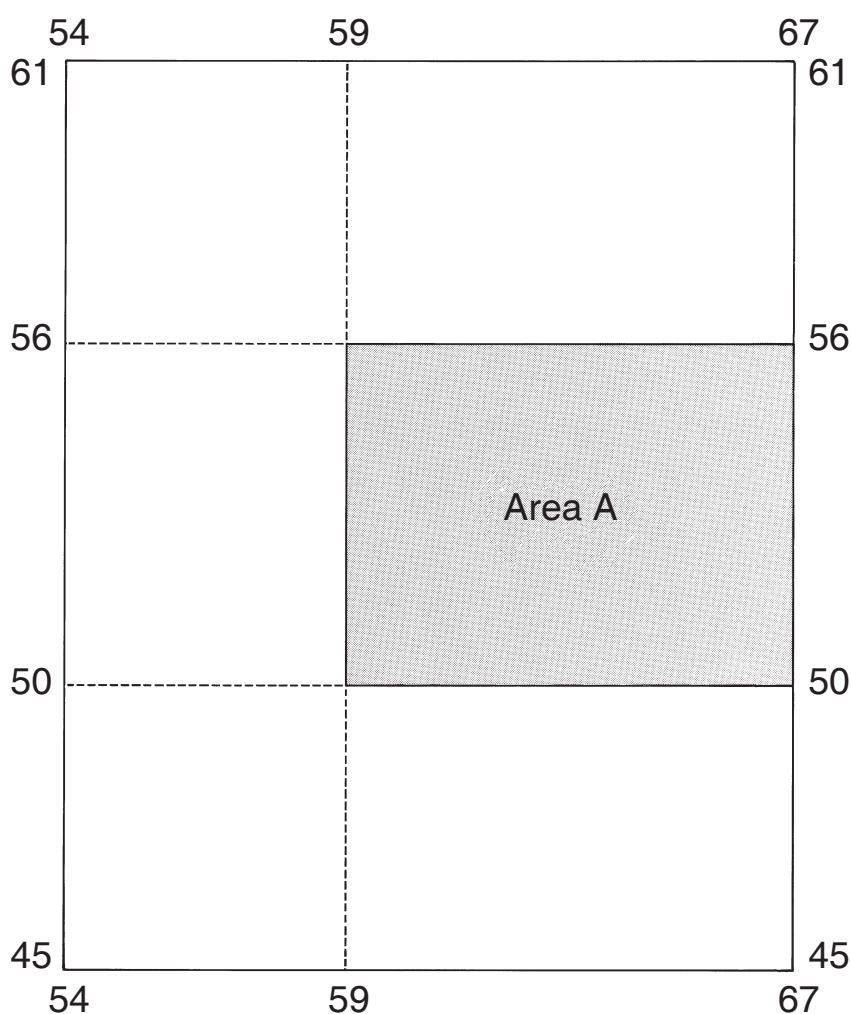
Study OS Map Extract number 1940/115: Snowdon (*separate item*), and Map Q1.

- (a) **Describe** the evidence which shows that Area A, shown on Map Q1, has been affected by the processes of glacial erosion.

You should refer to specific named features and make use of grid references.

12

Map Q1: Snowdon



- (b) **Explain**, with the aid of an annotated diagram or diagrams, how **one** of the following features of glacial deposition is formed:

- terminal moraine
- esker
- drumlin.

6

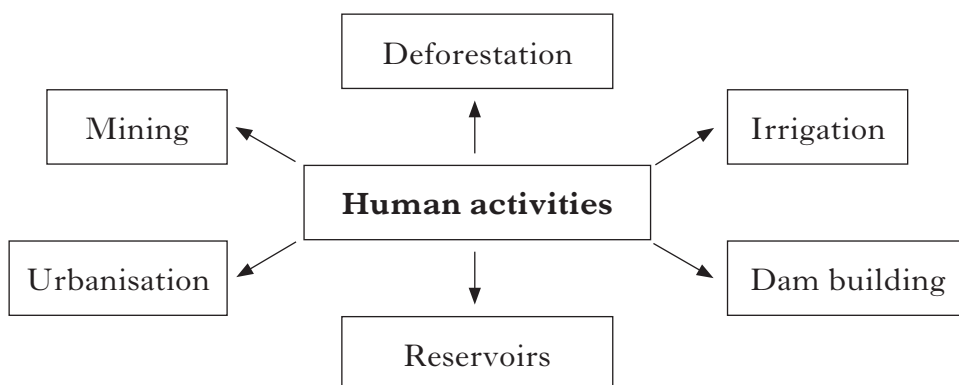
**Question 2: Hydrosphere**

(a) Study Diagram Q2A.

**Describe** and **explain** how human activities, such as those shown on Diagram Q2A, can impact on the hydrological cycle.

10

**Diagram Q2A: Human activities affecting the hydrological cycle**

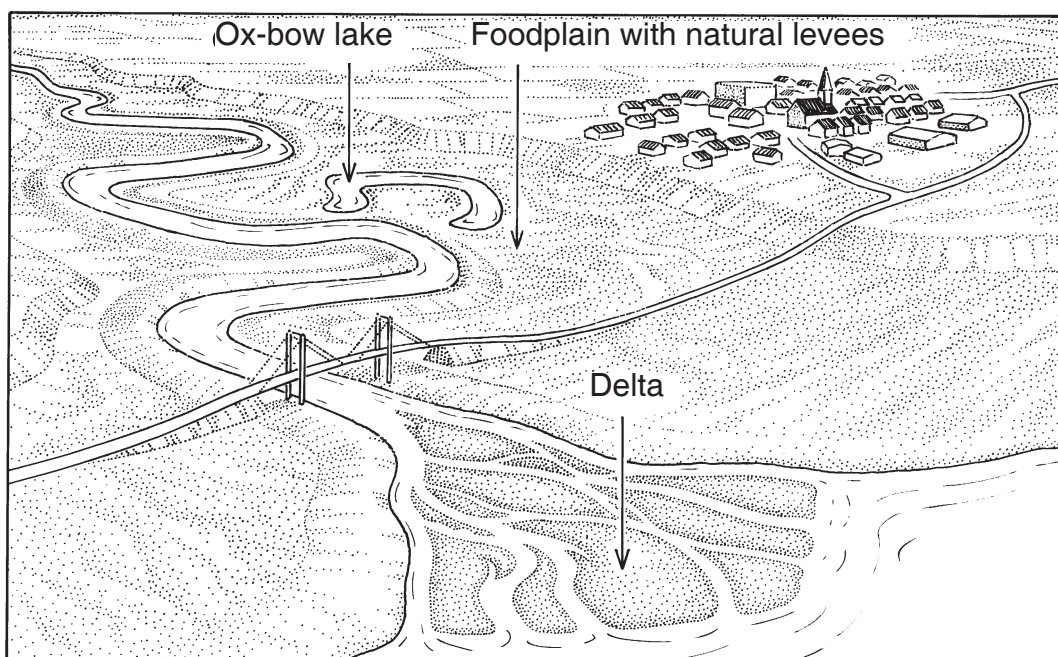


(b) Study Diagram Q2B.

**Explain**, with the aid of an annotated diagram or diagrams, how **one** of the lower course river features, shown on Diagram Q2B, is formed.

8

**Diagram Q2B – Lower course river features**



**[Turn over**

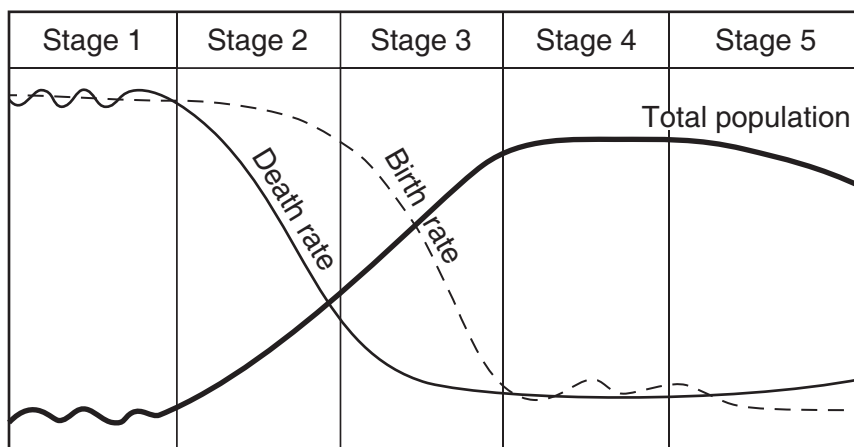
**Question 3: Population**

(a) Study Diagram Q3A.

**Describe** and **suggest reasons** for the changes that take place in **Stages 1 to 3** of the Demographic Transition Model.

10

**Diagram Q3A: The Demographic Transition Model**

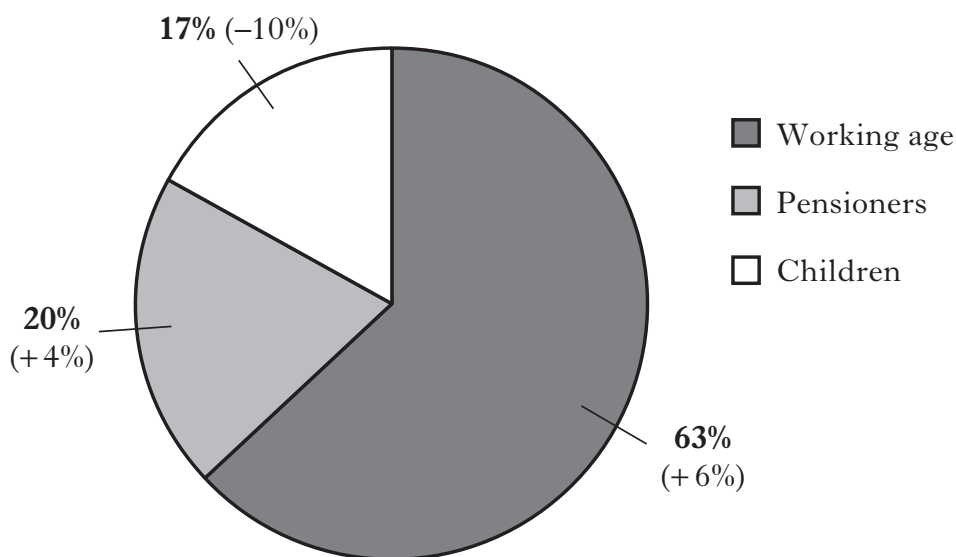


(b) Study Diagram Q3B.

**Describe** the changes which have taken place in Scotland's population structure and **suggest problems** that the government may face as a result of these changes.

8

**Diagram Q3B: Scotland's population 2012 (Change from 1974 in brackets)**



**Question 4: Industrial Geography**

Study Diagram Q4 and Map Q4.

With reference to **named examples** within an area of industrial decline in the European Union which you have studied:

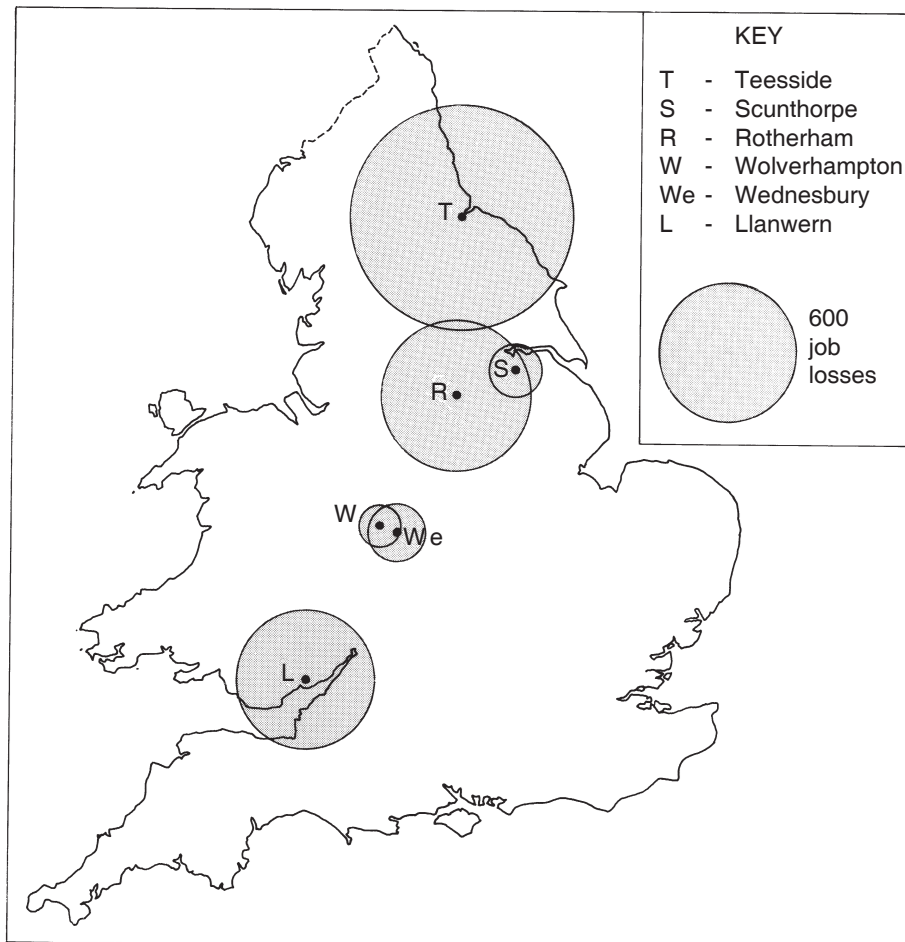
- (a) **explain** reasons for industrial decline in areas like Teesside; 8
- (b) **describe** and **explain** the impact of industrial closures on people, the local economy and the environment in the surrounding area. 10

**Diagram Q4: Newspaper Extract**

*“Workers in one of the UK’s biggest steel-making areas were dealt a savage pre-Christmas blow today with news that a giant plant in Teesside is to be closed with the loss of 1700 jobs. Job losses leave Corus workers devastated.”*

Press Association December 2009

**Map Q4: Corus Steelworks closures in England and Wales in 2009**



**SECTION B: Answer ONE question from this section,  
ie either Question 5 or Question 6.**

**Question 5: Biosphere**

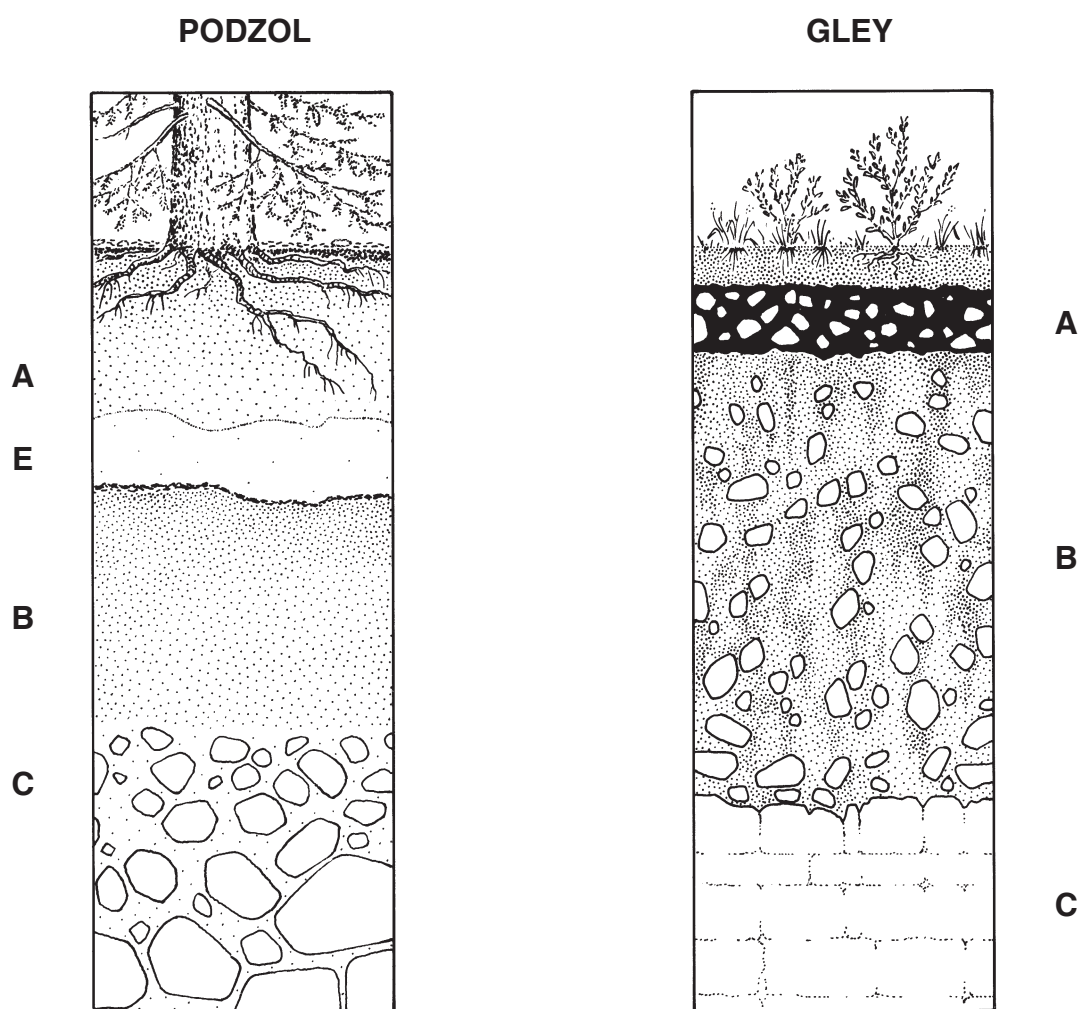
(a) Study Diagram Q5.

Choose **one** of the soil profiles.

**Describe** the characteristics of the soil, including horizons, colour, soil biota, texture and drainage.

6

**Diagram Q5: Selected soil profiles**



(b) **Explain** how factors such as natural vegetation, soil organisms, climate, relief and drainage have contributed to the formation and characteristics of a **brown earth** soil.

8

**DO NOT ANSWER THIS QUESTION IF YOU HAVE  
ALREADY ANSWERED QUESTION 5**

**Question 6: Atmosphere**

- (a) With the aid of an annotated diagram or diagrams, **explain** why there is a surplus of solar energy in the tropical latitudes and a deficit of solar energy towards the poles. **8**
- (b) Study Diagram Q6.
- Describe** the possible consequences of global warming throughout the world. **6**

**Diagram Q6: Newspaper Extract**

*“Global warming is causing an increase in temperature throughout the World. In Scotland, some areas of Glasgow near the Clyde are in danger of serious flooding—and the risk is only going to get worse because of climate change due to global warming.”*

*The Herald, 28 November 2009*

**[Turn over**

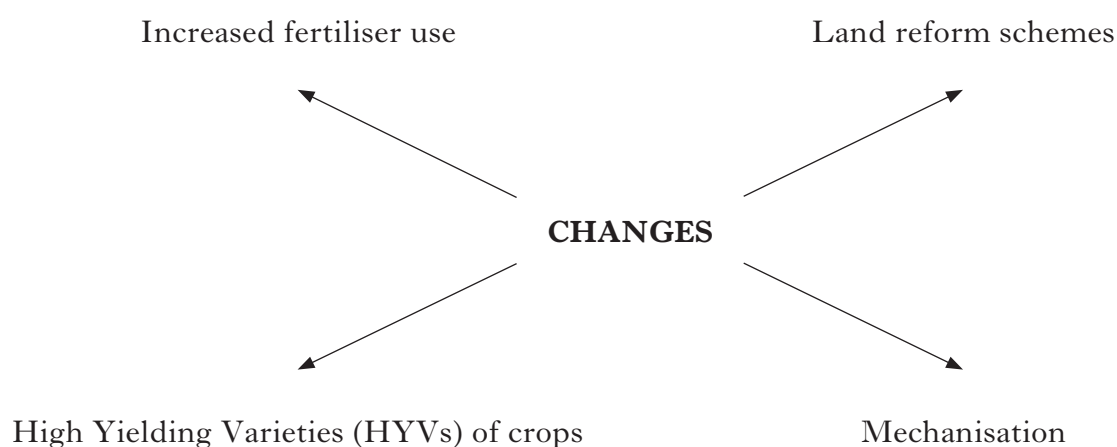
**SECTION C: Answer ONE question from this section,  
ie either Question 7 or Question 8.**

**Question 7: Rural Geography**

- (a) **Describe** the main features of the shifting cultivation farming system. **6**
- (b) Study Diagram Q7.

**Describe** and **explain** the advantages and disadvantages of **two** of the **changes** shown in intensive peasant farming. **8**

**Diagram Q7: Recent changes in intensive peasant farming**





**DO NOT ANSWER THIS QUESTION IF YOU HAVE  
ALREADY ANSWERED QUESTION 7**

**Question 8: Urban**

- (a) For a named Developed World city you have studied, **describe** the changes that have taken place in the Central Business District (CBD).

Your answer should refer to specific named locations within your chosen city.

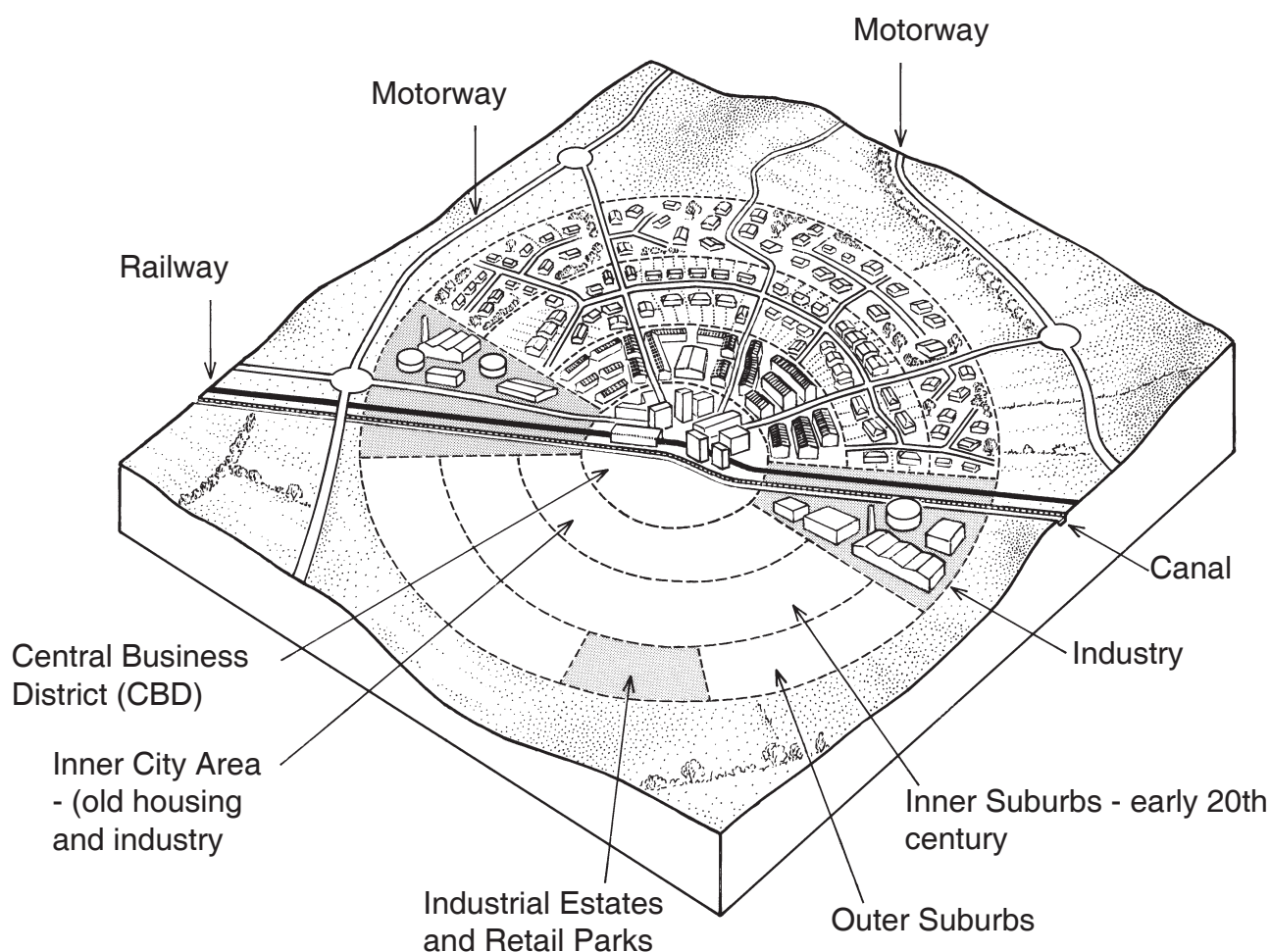
8

- (b) Study Diagram Q8.

**Describe** and **explain** the main urban landscape characteristics of **either** the inner city **or** the outer suburbs.

6

**Diagram Q8: A summary model of Land Use in a City**



[END OF QUESTION PAPER]

## ACKNOWLEDGEMENTS

Diagram Question 4—Newspaper Extract from *Press Association*, December 2009  
Permission is being sought from Press Association Scotland.

Diagram Question 6—Newspaper Extract from *The Herald*, 28 November 2009.  
Reproduced by kind permission of Herald and Times.

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