

# X208/12/01

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NATIONAL THURSDAY, 21 MAY  
QUALIFICATIONS 9.00 AM – 10.30 AM  
2015

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**

- (a) Study the Ordnance Survey Map Extract number 2112/157 & 158: Pembrokeshire Coast (*separate item*).

**Describe** the map evidence that shows the Pembrokeshire coastline from 860010 to 040980 is an area of coastal erosion.

10

- (b) With the aid of annotated diagrams, **explain** the various stages and processes involved in the formation of a stack.

8

**Question 2: Hydrosphere**

- (a) With the aid of an annotated diagram, **describe** the global hydrological cycle.

6

- (b) Study Table Q2.

Select **one** upper course **and one** lower course feature from the table below. **Describe** and **explain** the formation of each of these features. Annotated diagrams may be used.

12

**Table Q2: Selected River features from the Upper and Lower Course**

Upper Course	Lower Course
River waterfall	Delta
V-shaped valley	Floodplain and natural levees

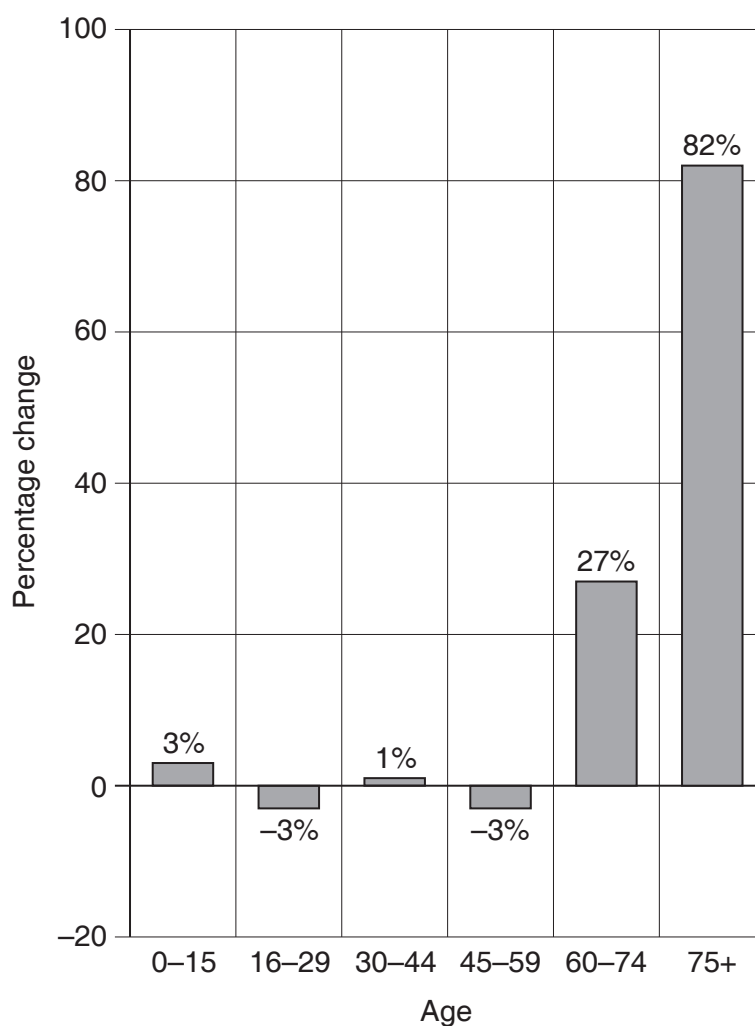
**Question 3: Population**

(a) Study Diagram Q3.

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

8

**Diagram Q3: Projected change in Scotland's population 2015–2035**



(b) This population information was projected from data collected in the 2011 census carried out in the UK. **Explain** why carrying out a census may be more difficult and the results less reliable in Developing Countries.

10

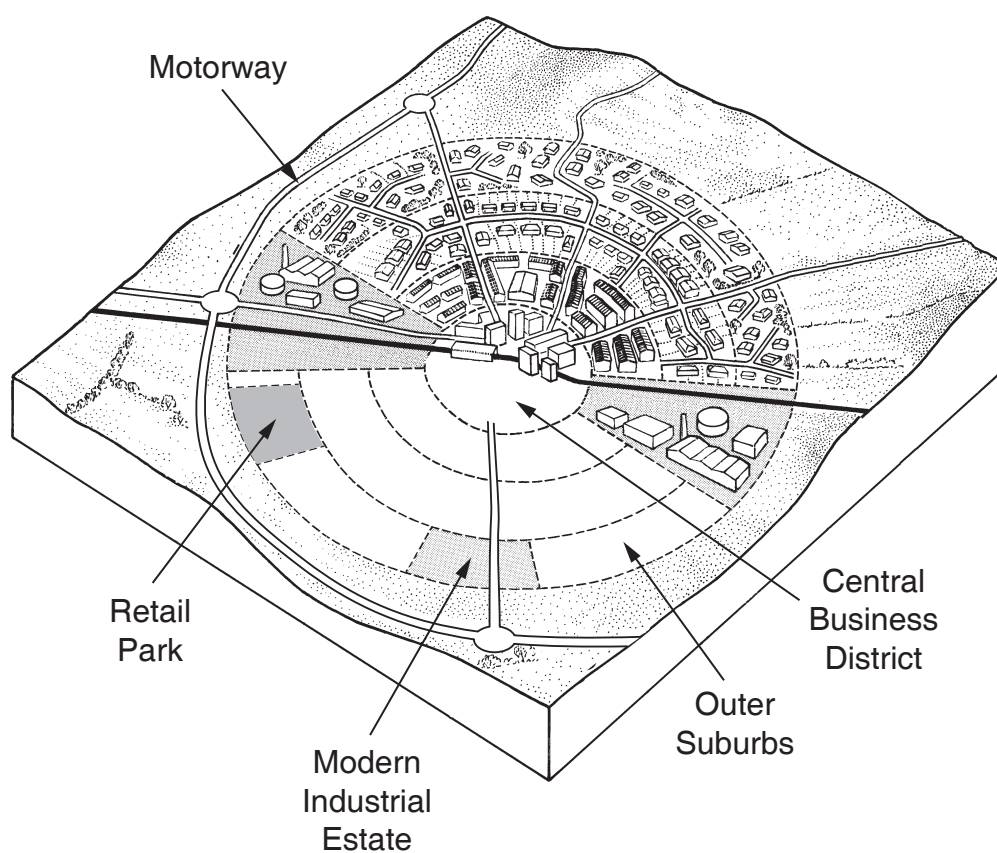
[Turn over

**Question 4: Urban**

Study Diagram Q4.

Referring to any named Developed World city you have studied:

- (a) **describe** and **explain** the advantages of locating modern business and/or retail parks in the Outer Suburbs of your chosen city; 8
- (b) **describe** and **explain** the changes which have taken place in the Central Business District (CBD) over the past few decades. You may include changes to transport, employment, shopping and other land uses. 10

**Diagram Q4**

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

Marks

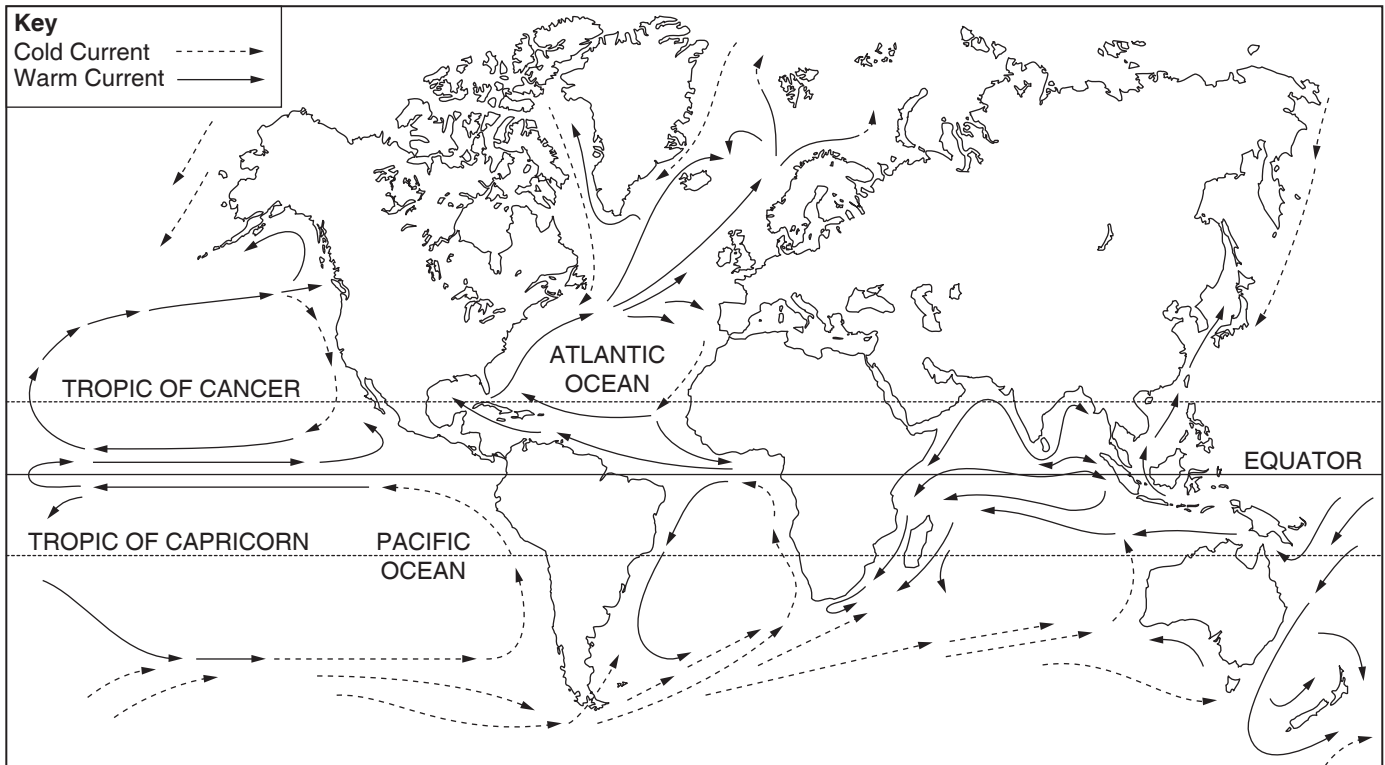
Question 5: Atmosphere

(a) Study Map Q5.

**Describe** and **explain** the pattern of ocean currents for **either** the Pacific Ocean **or** the Atlantic Ocean.

6

Map Q5: Selected Ocean Currents

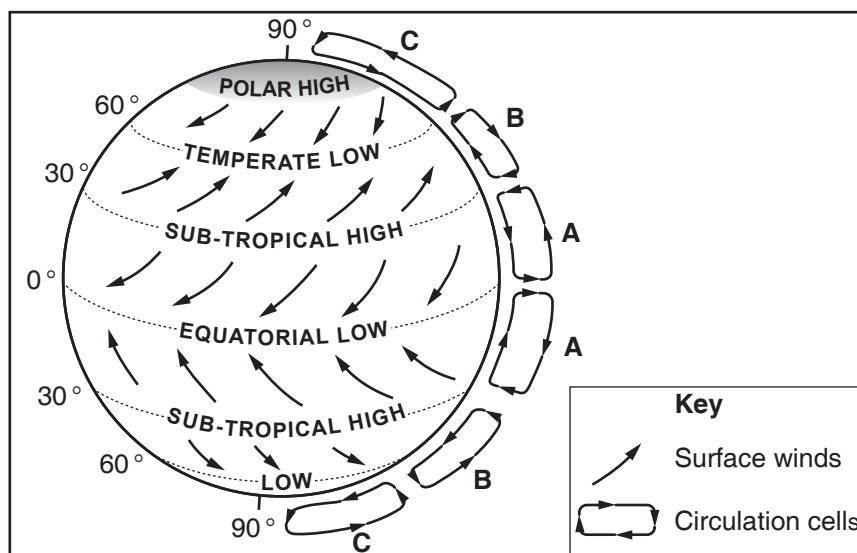


(b) Study Diagram Q5 which shows surface winds and pressure zones.

**Explain** how the circulation cells A, B and C **and** the associated surface winds assist in the transfer of energy between areas of surplus and deficit.

8

Diagram Q5: Surface winds and pressure zones



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

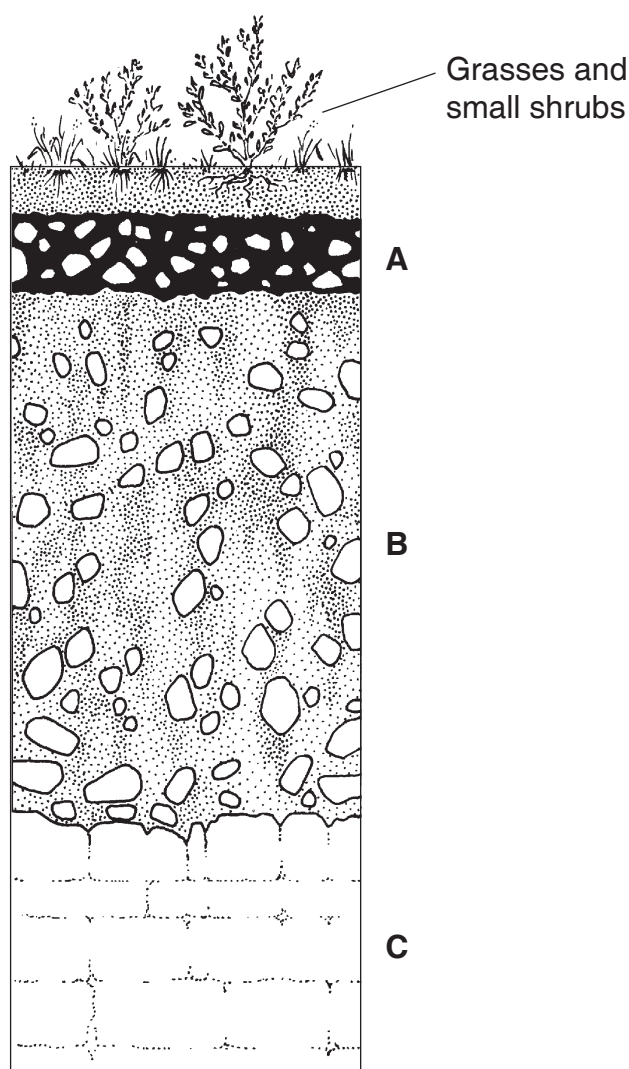
**Question 6: Biosphere**

- (a) **Draw** and **fully annotate** a soil profile of a **podzol** soil to show its main characteristics, (including horizons, colour, texture and drainage) and associated vegetation. 8

- (b) Study Diagram Q6, which shows a soil profile of a **gley** soil.

**Explain** how factors such as natural vegetation, soil organisms, climate, relief and drainage have contributed to the formation and characteristics of a **gley** soil. 6

**Diagram Q6: A Gley Soil**



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

**Question 7: Rural**

(a) Study Photograph Q7.

**Describe** and **explain** the main features of **commercial arable** farming.

7

**Photograph Q7: Commercial Arable Farming**



(b) Referring to an area you have studied, **describe** and **explain** the recent changes that have taken place in an **intensive peasant** farming system.

7

**[Turn over for Question 8 on *Page eight***

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

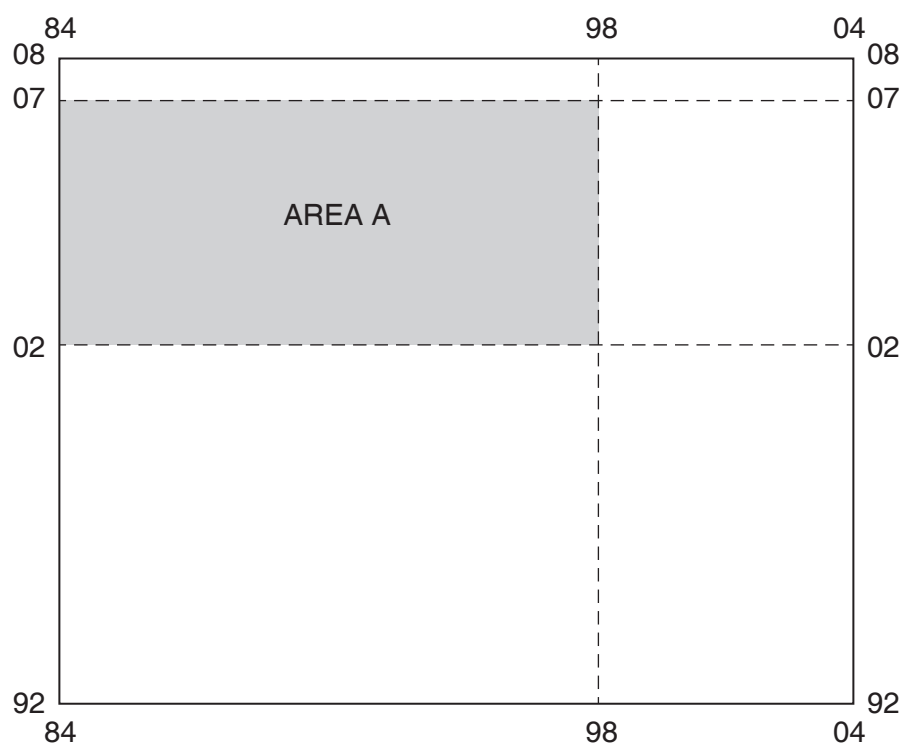
**Question 8: Industry**

Study the Ordnance Survey Map Extract number 2112/157 & 158: Pembrokeshire Coast (*separate item*) and Map Q8.

(a) With the aid of map evidence, **describe** and **explain** the physical **and** human factors that have encouraged industry to locate in Area A. 9

(b) **Describe** the potential environmental consequences of the industrial concentration in Area A. 5

**Map Q8: Milford Haven Industrial Area**



[END OF QUESTION PAPER]



## ACKNOWLEDGEMENT

Paper 1 Section C Photograph Q7 – Tootles/shutterstock.co