

OXFORD CAMBRIDGE AND RSA EXAMINATIONS

Advanced GCE

GEOGRAPHY A

2683

Options in Physical and Human Geography

Tuesday **14 JUNE 2005** Afternoon 1 hour 30 minutes

Additional materials:

Answer paper/booklet

Enclosed with this question paper:

1:50 000 map extract

Insert

TIME 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and Candidate number in the spaces provided on the answer paper/booklet.
- Answer two questions, one from Section A and one from Section B.
- Write your answers, in blue or black ink.
- Read each question carefully and make sure you know what you have to do before starting your answer.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is 90.
- Where relevant, you should include sketch maps and diagrams and make use of examples of places you have studied.
- You will be awarded marks for the quality of written communication.

This question paper consists of 6 printed pages, 2 blank pages, an insert and an OS map.

Section A**Group A Options**

Answer **one** question from questions 1 to 15.

Option 1: Coastal Environments

- Either:** 1 Study the 1:50 000 OS map extract of part of the North-West Wales coast and Fig. 1 which shows the location of the map extract in its regional setting.
- (a) Describe the depositional coastal landforms and their distribution shown on the map. [20]
 - (b) Explain how a variety of influences are responsible for these coastal landforms. [25]
- Or:** 2 (a) Describe how the coast operates as an open system. [20]
- (b) How might variations in beach profiles be explained? [25]
- Or:** 3 (a) With reference to specific coastlines, describe how human activities impact on coastal systems. [20]
- (b) Explain why it can be difficult for management strategies/schemes to respond to these impacts. [25]

Option 2: Fluvial Environments

- Either:** 4 Study the 1:50 000 OS map extract of part of North-West Wales.
- (a) Describe how you might measure changes in the velocity and discharge of the Afon Soch between 260308 and 284274. [20]
 - (b) Explain how in any river, discharge and sediment help in understanding downstream changes in channel shape. [25]
- Or:** 5 (a) What factors influence changes in a river's base level? [20]
- (b) Show how both the long and cross profile of a river and its valley can reflect changes in base level. [25]
- Or:** 6 Study the 1:50 000 OS map extract of part of North-West Wales.
- (a) Describe changes in the Afon Soch valley between its source at 249353 and its mouth, 313283. [20]
 - (b) Suggest reasons for these changes. [25]

Option 3: Glacial and Periglacial Environments

- Either:** 7 (a) Describe the ways in which a glacier moves. [20]
(b) Explain the relationship between ice movement and the formation of erosional landforms. [25]
- Or:** 8 (a) Describe the ways in which debris moves downslope in periglacial landscapes. [20]
(b) Explain how some landforms in periglacial landscapes show the influence of seasonal variations in climate. [25]
- Or:** 9 (a) Describe the role of flowing water in glacial deposition. [20]
(b) Explain how glaciation can modify pre-glacial drainage patterns. [25]

Option 4: Hot arid and Semi-arid Environments

- Either:** 10 (a) Describe the characteristic soils of hot arid and semi-arid environments. [20]
(b) Explain the relationship between climate, soils and vegetation in hot arid and semi-arid environments. [25]
- Or:** 11 (a) Describe the landform features of sand deserts. [20]
(b) Explain how these features are formed. [25]
- Or:** 12 Study Fig. 2 which shows a desert landscape in Death Valley, California.
(a) Identify the desert landform features, A, B and C and describe their characteristics. [20]
(b) How are these features likely to have been formed? [25]

Option 5: Applied Climatology

- Either: 13** Study the 1:50 000 OS map extract of part of the North-West Wales coast and Fig. 1 which shows the location of the map extract in its regional setting.
- (a) Describe the likely variation in climate due to the topography of the area of north-west Wales shown on the OS map extract. [20]
 - (b) Explain how these climatic variations are likely to influence the pattern of human activities in the area. [25]
- Or: 14**
- (a) Describe 'wind throw' and the circumstances under which it occurs. [20]
 - (b) Explain the climatic differences between forests and their surroundings. [25]
- Or: 15**
- (a) Describe the contribution of meteorological factors to major air pollution episodes. [20]
 - (b) With reference to examples, explain how major air pollution episodes cause human problems. [25]

Section B**Group B Options**

Answer **one** question from questions 16 to 27.

Option 6: Agriculture and Food

- Either:** 16 (a) Describe how relief influences agricultural systems. [20]
(b) How may technology be used to overcome physical obstacles to agricultural production? [25]
- Or:** 17 (a) Describe the main features of one type of farming as an agro-ecosystem. [20]
(b) Explain why some types of farming are more sustainable than others. [25]
- Or:** 18 (a) Describe current global variations in food shortages and famines. [20]
(b) Explain why the security of food supplies varies from one region to another. [25]

Option 7: Manufacturing Industry: Location, Change and Environmental Impact

- Either:** 19 (a) Outline the factors that lead to some industries clustering in space. [20]
(b) Explain why regional industrial specialisation brings both advantages and disadvantages. [25]
- Or:** 20 (a) Describe the attraction of coastal locations to certain types of manufacturing industry. [20]
(b) Explain the consequences of a factory closure on communities at a local scale. [25]
- Or:** 21 (a) Under what circumstances does industrial inertia influence the location of manufacturing industry? [20]
(b) Explain how changes in the global distribution of manufacturing industry have been influenced by labour. [25]

Option 8: Service Activities: Location, Change and Environmental Impact

- Either:** 22 (a) What is meant by 'hierarchy' and 'centrality' in the location of service activities? [20]
 (b) Explain the changes in many service hierarchies during the past 40 years. [25]
- Or:** 23 (a) Describe the characteristics and locations of retailing found within the Central Business District (CBD). [20]
 (b) Explain how and why planners try to maintain the status and quality of retailing in the CBD. [25]
- Or:** 24 (a) Describe the characteristics of the following types of service locations: regional shopping centre; office park; edge city. [20]
 (b) Explain how the decentralisation of service activities has brought advantages and disadvantages. [25]

Option 9: Tourism and Recreation and their Environmental Impacts

- Either:** 25 Study the 1:50 000 OS map extract of part of North-west Wales and Fig. 1 which shows the location of the map extract in its regional setting.
 (a) Describe the types of tourist resources shown on the OS map extract. [20]
 (b) Explain how tourism and recreation can play an important role in regional development. [25]
- Or:** 26 (a) What is meant by the life cycle (Butler) model of a tourist location? [20]
 (b) Explain how changing social and economic circumstances have influenced where people take their holidays. [25]
- Or:** 27 (a) Outline the factors that have led to mass tourism. [20]
 (b) Explain why some tourist destinations have developed alternative types of tourism. [25]

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