

ADVANCED GCE
GEOGRAPHY A
Options in Physical and Human Geography
FRIDAY 6 JUNE 2008

2683

Morning
Time: 1 hour 30 minutes

Additional materials (enclosed): None

Additional materials (required):
Answer Booklet (8 pages)



INSTRUCTIONS TO CANDIDATES

- Write your name in capital letters, your Centre Number and Candidate Number in the spaces provided on the Answer Booklet.
- Read each question carefully and make sure you know what you have to do before starting your answer.
- Answer **two** questions, **one** from Section A and **one** from Section B.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.

INFORMATION FOR CANDIDATES

- The number of marks for each question 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 document consists of **6** printed pages and **2** blank pages.

Section A**Group A Options**

Answer **one** question from Questions 1 to 10.

Option 1: Coastal Environments

- Either** 1 (a) Describe contrasting methods of coastal management. [20]
(b) Explain how sub-aerial processes influence the development of cliffs. [25]
- Or** 2 (a) Describe how the sea erodes and transports. [20]
(b) Account for variations in wave energy reaching the coast. [25]

Option 2: Fluvial Environments

- Either** 3 (a) Describe methods of measuring river velocity and discharge. [20]
(b) Explain the contrasts in energy required to pick up, transport and deposit sediment of different sizes. [25]
- Or** 4 (a) Describe the causes of river flooding. [20]
(b) Explain how river flooding can be reduced and prevented. [25]

Option 3: Glacial and Periglacial Environments

- Either** 5 (a) Describe the changing pattern of ice cover across the British Isles during the Pleistocene. [20]
(b) Explain the effects of multiple glaciation and deglaciation on lowland landscapes. [25]
- Or** 6 (a) Describe the types and rates of ice movement in cold and warm-based glaciers. [20]
(b) Explain how drainage patterns can be modified by the advance and retreat of ice across a landscape. [25]

Option 4: Hot arid and Semi-arid environments

- Either 7** (a) With the help of labelled diagrams, describe the following landforms: alluvial fan and bahada; wadi; inselberg. [20]
- (b) Explain how past, as well as present, processes contribute towards the development of desert landforms. [25]
- Or 8** (a) Describe the characteristics of soils in hot arid and semi-arid environments. [20]
- (b) Explain how plants have adapted to living in hot arid and semi-arid environments. [25]

Option 5: Applied Climatology

- Either 9** (a) Describe ways in which meteorological conditions affect human comfort in different parts of the world. [20]
- (b) Explain how building design provides 'human comfort' in different climates. [25]
- Or 10** (a) Describe the micro-climatic modifications brought about by buildings. [20]
- (b) Explain how urban morphology influences urban climate. [25]

Section B**Group B Options**

Answer **one** question from Questions 11 to 18.

Option 6: Agriculture and Food

- Either 11 (a)** Describe the pattern of food shortages and famines in LEDCs. [20]
- (b)** Explain how food shortages and famines result from both physical and human factors. [25]
- Or 12 (a)** Describe the diffusion of agricultural innovations. [20]
- (b)** Explain variations in the pattern of diffusion of agricultural innovations. [25]

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

- Either 13 (a)** Describe the influence of labour on the location of manufacturing. [20]
- (b)** Explain why the consequences of manufacturing unemployment vary from place to place. [25]
- Or 14 (a)** Describe the influence of industrial inertia on the location of manufacturing. [20]
- (b)** Explain how manufacturing industries have developed in LEDCs and NICs. [25]

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

- Either 15 (a)** Describe theories and models of retailing and office location within the CBD. [20]
- (b)** Explain how planning responses aim to enhance the status and quality of retailing in the CBD. [25]
- Or 16 (a)** Describe the characteristics of regional shopping centres; retail parks and hypermarkets. [20]
- (b)** Explain the effects of these new retail centres on traditional urban retailing hierarchies. [25]

Option 9: Tourism and Recreation and their Environmental Impacts

- Either** **17** **(a)** Describe the characteristics of mass tourism; ecotourism and urban tourism. [20]
- (b)** Explain the contrasting effects of both mass tourism and ecotourism on LEDCs. [25]
- Or** **18** **(a)** Describe the role of tourism and recreation in national and regional development strategies. [20]
- (b)** Explain how changes in transport technology since the 18th century have affected patterns of international tourism. [25]

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