



**ADVANCED GCE**

**GEOGRAPHY A**

Options in Physical and Human Geography

**2683**

Candidates answer on the Answer Booklet

**OCR Supplied Materials:**

- 8 page Answer Booklet

**Other Materials Required:**

None

**Friday 23 January 2009**

**Afternoon**

**Duration:** 1 hour 30 minutes



**INSTRUCTIONS TO CANDIDATES**

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the spaces provided on the Answer Booklet.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **two** questions, **one** from Section A and **one** from Section B.
- Do **not** write in the bar codes.

**INFORMATION FOR CANDIDATES**

- The number of marks is given in brackets [ ] at the end of each question or part question.
- 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.
- The total number of marks for this paper is **90**.
- This document consists of **8** pages. Any blank pages are indicated.

**Section A****Group A Options**

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

**Option 1: Coastal Environments**

- Either**    1    (a) Describe the factors influencing waves in the coastal zone. [20]
- (b) Explain how sand dunes and salt marshes result from the interaction of several factors. [25]
- Or**            2    (a) Describe the slope processes involved in the formation and development of marine cliffs. [20]
- (b) Explain why contrasting methods of coastal management are used in different locations. [25]

**Option 2: Fluvial Environments**

- Either**    3    (a) Describe the characteristic cross-sections and plans for both braided and meandering river channels. [20]
- (b) Explain how variations in velocity and discharge affect a river's ability to erode. [25]
- Or**            4    (a) Describe both ecological and engineering solutions to flooding by rivers. [20]
- (b) Explain how the development of river terraces and deltas result from the interaction of a variety of factors. [25]

**Option 3: Glacial and Periglacial Environments**

- Either**    5    (a) Describe the conditions that lead to glacial advance and glacial retreat. [20]
- (b) Explain how glacial weathering and erosion processes produce characteristic landforms in glaciated regions. [25]
- Or**            6    (a) Describe the effects of glaciation on drainage patterns. [20]
- (b) Explain how multiple glacial advances and retreats produce distinctive landforms and landscapes in upland regions. [25]

**Option 4: Hot Arid and Semi-arid Environments**

- Either**    **7**    **(a)** Describe the characteristic soil-forming processes and the resulting soils found in hot arid and semi-arid environments. **[20]**
- (b)** Explain how the locations of hot arid and semi-arid environments result from the interaction of several factors. **[25]**
- Or**            **8**    **(a)** Describe processes of erosion and transport by wind in hot arid and semi-arid environments. **[20]**
- (b)** Explain the formation of wadis, arroyos and inselbergs. **[25]**

**Option 5: Applied Climatology**

- Either**    **9**    **(a)** Describe ways in which human activity is influenced by variations in topo-climates. **[20]**
- (b)** Explain the direct and indirect effects of shelter belts and wind breaks. **[25]**
- Or**            **10**    **(a)** Describe the influence of temperature, relative humidity and wind speed on human comfort. **[20]**
- (b)** Explain how variations in building design offer human comfort in different climates. **[25]**

**Section B****Group B Options**

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

**Option 6: Agriculture and Food**

- Either**    **11**    **(a)** Describe the distribution of commercial and non-commercial agricultural systems at the global scale. **[20]**
- (b)** Explain how commercial agricultural systems respond to changing social and economic influences. **[25]**
- Or**            **12**    **(a)** Describe the influence of soils on agricultural systems. **[20]**
- (b)** Explain how farmers can overcome relief and climatic obstacles to agricultural production. **[25]**

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

- Either**    **13**    **(a)** Describe the impacts of manufacturing industry on the physical environment. **[20]**
- (b)** Explain how deindustrialisation in MEDCs results from the interaction of a variety of factors. **[25]**
- Or**            **14**    **(a)** Describe the varying influences of raw materials on the location of manufacturing industries. **[20]**
- (b)** Explain how communities can be affected by manufacturing industry in MEDCs. **[25]**

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

- Either**    **15**    **(a)** Describe the models and theories of the location of retailing and offices within the CBD. **[20]**
- (b)** Explain how decentralisation of service activity affects CBDs. **[25]**
- Or**            **16**    **(a)** Describe changes in service provision in rural areas during the last 40 years. **[20]**
- (b)** Explain how changing service provision in rural areas during the last 40 years has resulted from the interaction of several factors. **[25]**

**Option 9: Tourism and Recreation and their Environmental Impacts**

- Either**    **17**    **(a)** Describe the various types of resources that can lead to the development of tourist locations. **[20]**
- (b)** Explain why some tourist locations decline but others successfully regenerate. **[25]**
- Or**            **18**    **(a)** Describe ways in which some tourist developments are sustainable. **[20]**
- (b)** Explain how impacts associated with mass tourism result from the interaction of several factors. **[25]**

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