



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

Monday 21 June 2010

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 processes of marine erosion and transportation. [20]
- (b) Explain the formation of swash-aligned and drift-aligned beaches. [25]
- Or** 2 (a) Describe the sub-aerial processes involved in the formation and development of marine cliffs. [20]
- (b) Explain the role of vegetation in the formation and development of salt marsh and sand dunes. [25]

Option 2: Fluvial Environments

- Either** 3 (a) Describe variations in the efficiency of fluvial channels. [20]
- (b) Explain variations in long and cross-profiles of rivers. [25]
- Or** 4 (a) Describe the influence of human activity on sediment load. [20]
- (b) Explain the pattern of riffles and pools typically found along meandering rivers. [25]

Option 3: Glacial and Periglacial Environments

- Either** 5 (a) Describe the weathering and slope processes typical of periglacial regions. [20]
- (b) Explain the role of multiple advances and retreats of glaciers in the development of upland glaciated landforms. [25]
- Or** 6 (a) Describe ways in which sediment is transported in glacial environments. [20]
- (b) Explain the role of the advance and retreat of ice in the development of drainage patterns. [25]

Option 4: Hot Arid and Semi-arid Environments

- Either** **7** **(a)** Describe weathering processes commonly found in hot arid and semi-arid environments. **[20]**
- (b)** Explain why biomass, biodiversity and productivity are at relatively low levels in hot deserts. **[25]**
- Or** **8** **(a)** With the help of labelled diagrams, describe the following landforms: alluvial fan and bahada; wadi; inselberg. **[20]**
- (b)** Explain why hot arid and semi-arid environments are found in a variety of locations at the global scale. **[25]**

Option 5: Applied Climatology

- Either** **9** **(a)** Describe ways in which energy budgets differ between urban areas and their surrounding rural areas. **[20]**
- (b)** Explain how urban morphology influences urban climates. **[25]**
- Or** **10** **(a)** Describe how energy budgets differ between forests and their surrounding areas. **[20]**
- (b)** Explain how shelter belts and wind breaks modify local physical conditions. **[25]**

Section B**Group B Options**

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

Option 6: Agriculture and Food

- Either** **11** **(a)** Describe the rate and spatial spread of agricultural innovations. **[20]**
- (b)** Explain why the pattern of diffusion of agricultural innovation varies. **[25]**
- Or** **12** **(a)** Describe the influence of population density on agricultural systems. **[20]**
- (b)** Explain the role climate can have on farmers' choices of agricultural system. **[25]**

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

- Either** **13** **(a)** Describe the influence of the internal organisation of transnational companies (TNCs) on their spatial pattern at the global scale. **[20]**
- (b)** Explain how markets can influence the location of manufacturing industry. **[25]**
- Or** **14** **(a)** Describe the measures governments, planners and other agencies use to regenerate industry in peripheral regions. **[20]**
- (b)** Explain how both internal and external economies of scale can influence the location of manufacturing industry. **[25]**

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

- Either** **15** **(a)** Describe the principles of bid-rent theory and trade area analysis. **[20]**
- (b)** Explain the effects of new retail centres on traditional urban retailing hierarchies. **[25]**
- Or** **16** **(a)** Describe measures taken to address the issue of changing demand for rural services. **[20]**
- (b)** Explain how retirement migration and the increase in the number of second and holiday homes have affected rural services. **[25]**

Option 9: Tourism and Recreation and their Environmental Impacts

- Either** **17** **(a)** Describe the changing spatial pattern of domestic tourism within MEDCs since 1800. **[20]**
- (b)** Explain the role natural resources can play in attracting tourists to particular locations. **[25]**
- Or** **18** **(a)** Describe the main features of mass tourism and urban tourism. **[20]**
- (b)** Explain the issues associated with the development of tourism in LEDCs. **[25]**

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