

ADVANCED GCE GEOGRAPHY A

Options in Physical and Human Geography

WEDNESDAY 23 JANUARY 2008

2683

Afternoon Time: 1 hour 30 minutes

Additional materials: Answer Booklet (8 pages)

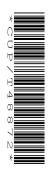
INSTRUCTIONS TO CANDIDATES

- 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.

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Section A

Group A Options

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

Option 1: Coastal Environments

Either	1	(a)	Describe the causes of relative sea level rise and relative sea level fall.	[20]
		(b)	Explain the role of sea level change in the development of coastal landforms.	[25]
Or	2	(a)	Describe the origins and characteristics of sediment found in the coastal zone.	[20]
		(b)	Explain why beach profiles vary.	[25]

Option 2: Fluvial Environments

Either	3	(a)	Describe the patterns of flow found in river channels.	[20]
		(b)	Explain how human activities affect discharge and sediment load.	[25]
Or	4	(a)	Describe methods by which cross-sectional channel shape and channel efficiency might be investigated.	[20]
		(b)	Explain the inter-relationships between channel efficiency, velocity and discharge.	[25]

Option 3: Glacial and Periglacial Environments

Either	5	(a)	Describe the ways in which sediment is transported in glacial environments.	[20]
		(b)	Explain how a period of glaciation produces a variety of depositional landforms.	[25]
Or	6	(a)	Describe the weathering and slope processes associated with periglacial conditions.	[20]
		(b)	Explain the factors leading to the growth and decay of ice masses.	[25]

Option 4: Hot arid and Semi-arid environments

Either	7	(a)	With the help of labelled diagrams, describe three different types of sand dunes.	[20]
		(b)	Explain how sand dunes are formed.	[25]
Or	8	(a)	Describe the ways in which human activities can use and misuse water resources in hot arid and semi-arid environments.	[20]
		(b)	Explain how erosion and transport of sediment by flowing water produce distinctive desert landforms.	[25]
Option !	5: Ap	plie	d Climatology	
Either	9	(a)	Describe the circumstances that can lead to wind-throw.	[20]
		(b)	Explain why forest climates differ from their surroundings.	[25]
Or	10	(a)	Describe ways in which major air pollution episodes cause problems for humans.	[20]
		(b)	Explain the contributions of climatological and meteorological factors to major air pollution episodes.	[25]

Section B

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Group B Options

Answer one question from Questions 11 to 18.

Option 6: Agriculture and Food

Either	11	(a)	Describe ways in which agro-ecosystems modify productivity, species diversity and sustainability.	[20]
		(b)	Explain how relief influences agricultural systems.	[25]
Or	12	(a)	Describe the pattern of nutrition at the global scale.	[20]
		(b)	Explain how technology influences agricultural systems.	[25]

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

Either	13	(a)	Describe the spatial and economic characteristics of peripheral regions.	[20]
		(b)	Explain how governments, planners and other agencies try to regenerate industry in peripheral regions.	[25]
Or	14	(a)	Describe ways in which markets can influence the location of manufacturing industries.	[20]
		(b)	Explain the global shift in manufacturing.	[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 how economies of scale influence patterns of retail location.	[25]
Or	16	(a)	Describe the characteristics of office parks, regional shopping centres and edge cities.	[20]
		(b)	Explain how decentralisation of service activities creates opportunities and problems.	[25]

Option 9: Tourism and Recreation and their Environmental Impacts

Either	17	(a)	Describe the following types of tourist development: resort; enclave; zone.	[20]
		(b)	Explain the changing pattern of holiday destinations.	[25]
Or	18	(a)	Describe the changing spatial pattern of domestic tourism within MEDCs from the 19 th century onwards.	[20]
		(b)	Explain why governments encourage tourism and recreation.	[25]

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