

OXFORD CAMBRIDGE AND RSA EXAMINATIONS

Advanced GCE

GEOGRAPHY A 2683

Options in Physical and Human Geography

Tuesday 24 JANUARY 2006 Afternoon 1 hour 30 minutes

Additional materials: 8 page Answer booklet Enclosed with this question paper: 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.

SP (NF) S97333/2 © OCR 2006 [L/100/3526]

Registered Charity Number: 1066969 [Turn over

Section A

Group A Options

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

Option 1: Coastal Environments								
Either:	1	(a)	Describe the formation and characteristics of different types of waves.	[20]				
		(b)	Explain how sediment transport influences different types of beach plan.	[25]				
Or:	2	(a)	Describe the marine processes involved in the formation and development of and shore platforms.	cliffs [20]				
		(b)	Explain how human activities influence the rates of cliff erosion.	[25]				
Or:	3	(a)	Describe the factors that contribute to the formation of salt marshes and mud fl	ats. [20]				
		(b)	Explain why coastal sand dune systems are dynamic features of the coastal sys	stem. [25]				
Option 2: Fluvial Environments								
Either:	4	(a)	Describe how a river transports its sediment load.	[20]				
		(b)	Account for the variety of depositional landforms found along a river's course.	[25]				
Or:	5	(a)	Describe the downstream changes in the cross-section and plan of a river char	nnel. [20]				
		(b)	Explain the factors influencing downstream changes in cross-section and plan.	[25]				
Or:	6	(a)	Describe the measures that can be taken to reduce the risks of river flooding.	[20]				
		(b)	Explain how floods result from the interaction of several factors.	[25]				

Option 3: Glacial and Periglacial Environments

Or:

Either: 7 (a) Describe the past and present distribution of glacial and periglacial environments in the British Isles. [20] (b) Explain the effects of multiple periods of glaciation and deglaciation on upland landscapes. [25] Or: 8 (a) Describe the processes of weathering and erosion associated with a period of glaciation. [20] **(b)** Explain how rock type affects the landforms resulting from a period of glaciation. [25] Or: [20] 9 (a) Describe the landforms associated with ground ice. Fig. 1 shows the climate at a location in Siberia. (b) Explain the influence of the climate, represented in Fig. 1, on the weathering and slope processes operating in periglacial environments. [25] **Option 4: Hot Arid and Semi-arid Environments Either: 10 (a)** Describe the changing location and extent of hot desert environments in the past. [20] (b) Explain the role of flowing water in the formation of hot desert landscapes and landforms. [25] Or: 11 (a) Describe the role of human activity in land degradation in desert areas. [20] (b) Explain how the location of desert areas is the result of the inter-action of several factors. [25]

12 (a) Describe the adaptations of animals to desert environments.

(b) Explain the role of water movement in the formation of desert soils.

2683 Jan06 [Turn over

[20]

[25]

Option 5: Applied Climatology

- **Either: 13 (a)** Describe how the energy budget of an urban area differs from that of surrounding rural areas. [20]
 - **(b)** Explain the climatic consequences of these differences and their significance for human activities in urban areas. [25]
- Or: 14 (a) Describe how human activity is affected by the frequency and severity of frost and fog. [20]
 - (b) Explain the relationship between topography and the frequency of frost and fog. [25]
- Or: 15 (a) Describe how human comfort varies in different parts of the world. [20]
 - (b) Explain how human comfort influences the design of buildings in different parts of the world. [25]

Section B

Group B Options

Answer one question from Questions 16 to 27.

Option 6: Agriculture and Food

(FDI)?

Either:	16	(a)	Describe how agro-ecosystems modify natural ecosystems.	[20]				
		(b)	Explain why specialist farms have the greatest impacts on natural ecosystems.	[25]				
Or:	17	Stu	tudy Fig. 2 which shows the pattern of diffusion of an innovation.					
		(a)	With reference to Fig. 2, describe the speed and spatial pattern of the diffusion agricultural innovations you have studied.	n of [20]				
		(b)	Explain why the rate of diffusion of agricultural innovations varies from place place.	e to [25]				
Or:	18	(a)	Describe the pattern of nutrition at global and regional scales.	[20]				
		(b)	Explain the role that economic and social factors might play in causing factors and famines.	ood [25]				
Option 7: Manufacturing Industry: Location, Change and Environmental Impact								
Either:	19	(a)	Describe how modern industrial growth in LEDCs and NICs has affected the physenvironment.	sical [20]				
		(b)	Explain how the internal organisation of firms influences their locational patterns	s. [25]				
Or:	20	(a)	Under what circumstances is labour quality more significant than labour costs to location of manufacturing industry?	the [20]				
		(b)	Explain how the social and economic consequences of unemployment vary with type of manufacturing industry.	the [25]				
Or:	21	(a)	Describe the impact on regional economies of Foreign Direct Investment (FDI) disinvestment in manufacturing.	and [20]				
		(b)	How and why do governments and planners influence Foreign Direct Investm	nent				

2683 Jan06 [Turn over

[25]

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

- **Either: 22 (a)** Outline the theories and models of the location of retailing and offices within the CBD. [20]
 - (b) How and why do real world retail and office locations within the CBD differ from these theories and models? [25]
- Or: 23 (a) Describe the main changes in the location of public services, such as schools and health care, in rural areas over the past 40 years. [20]
 - **(b)** Explain how the interaction of several factors brings about changes in rural service provision. [25]
- Or: 24 (a) Outline how central place theory accounts for the location and numbers of service centres in a region. [20]
 - (b) Explain why service provision rarely follows the patterns of central place theory. [25]

Option 9: Tourism and Recreation and their Environmental Impacts

- **Either: 25 (a)** Describe how patterns of international tourism can be affected by political factors. [20]
 - **(b)** Explain how developments in transport have brought about changes in the destinations and scale of international tourism. [25]
- Or: 26 (a) With reference to examples, describe what is meant by natural, cultural and heritage tourist resources. [20]
 - (b) Explain how tourism's use of cultural and heritage resources can have both positive and negative effects. [25]
- Or: 27 (a) With reference to examples, describe the physical, economic and cultural characteristics of mass tourism. [20]
 - (b) Explain how issues of sustainability are playing an increasingly important role in the development of tourism in LEDCs. [25]

BLANK PAGE

BLANK PAGE

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (OCR) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.