Surname		Other Names	
Centre Number			Candidate Number				
Candidate Signature									

Leave blank

General Certificate of Education
January 2006
Advanced Level Examination

ASSESSMENT and QUALIFICATIONS ALLIANCE

GEOGRAPHY (SPECIFICATION A) **GGA4**
Unit 4

Tuesday 24 January 2006 1.30 pm to 3.00 pm

You will need no other materials.
You may use a calculator.

Time allowed: 1 hour 30 minutes

Instructions
- Use blue or black ink or ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **three** questions in the spaces provided: **two** from **Section A** and **one** from **Section B**.
- Do all rough work in this book. Cross through any work you do not want marked.

Information
- The maximum mark for this paper is 90.
- Each question in Section A is worth 15 marks.
- Each question in Section B will be marked out of 30 and multiplied by 2 to give a mark out of 60.
- The marks for questions are shown in brackets.
- Section B of this unit assesses your understanding of the relationship between the different aspects of Geography.
- You are expected to use a calculator where appropriate.
- You are reminded of the need for good English and clear presentation in your answers. All questions should be answered in continuous prose. Quality of written communication will be assessed in all answers.

Advice
- Where appropriate, sketch maps and diagrams should be used to illustrate answers and reference made to regional examples and case studies.
- You are advised to spend about 30 minutes on Section A and about 60 minutes on Section B.

For Examiner's Use			
Number	Mark	Number	Mark
1		4	
2		5	
3		6	
		×2	
		=	
Total (Column 1) →			
Total (Column 2) →			
TOTAL			
Examiner's Initials			

SECTION A

Answer **two** questions from this section.

1 COAST PROCESSES AND PROBLEMS

Total for this question: *15 marks*

(a) Distinguish between high energy and low energy coasts.

.....

.....

.....

.....

.....

.....

.....

.....

(4 marks)

(b) Study **Figure 1a** which shows the Holderness Coast and **Figure 1b** which shows the development of Spurn Head between 1066 and 1850.

Figure 1a

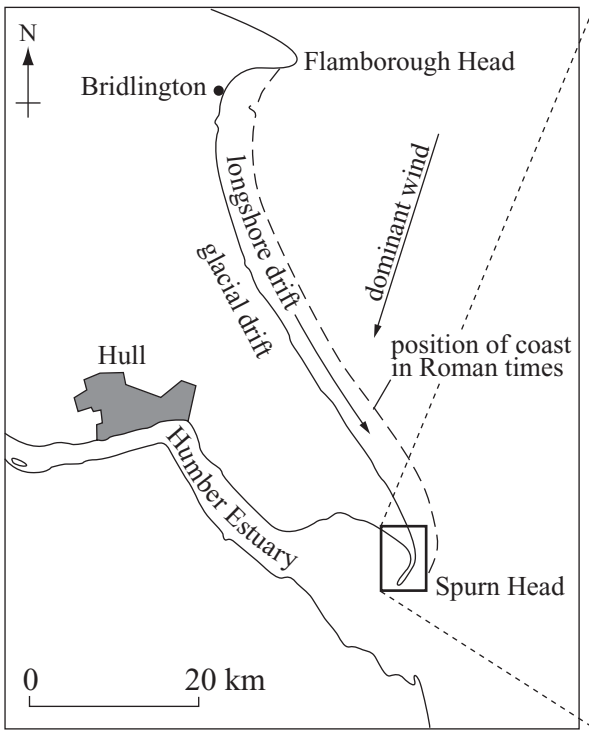
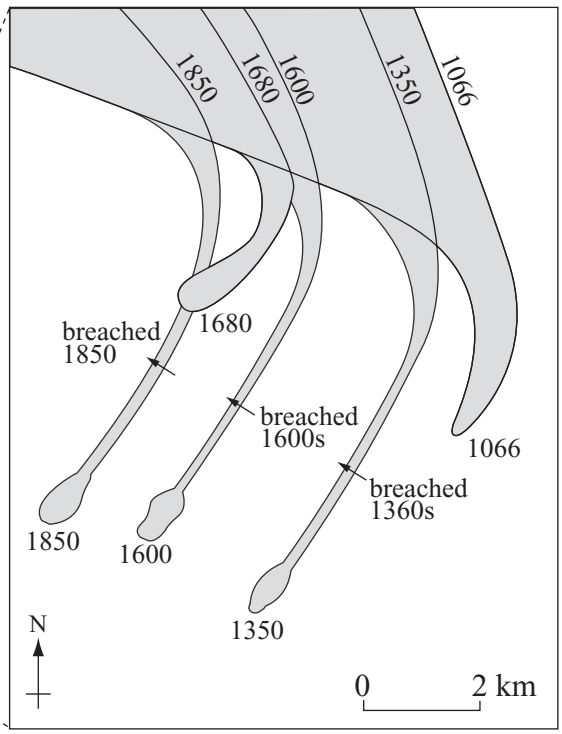


Figure 1b



Outline reasons for the development of a spit such as Spurn Head.

.....

.....

.....

.....

.....

.....

.....

.....

(4 marks)

(c) Discuss the problems associated with managing a high energy coast such as Holderness.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(7 marks)

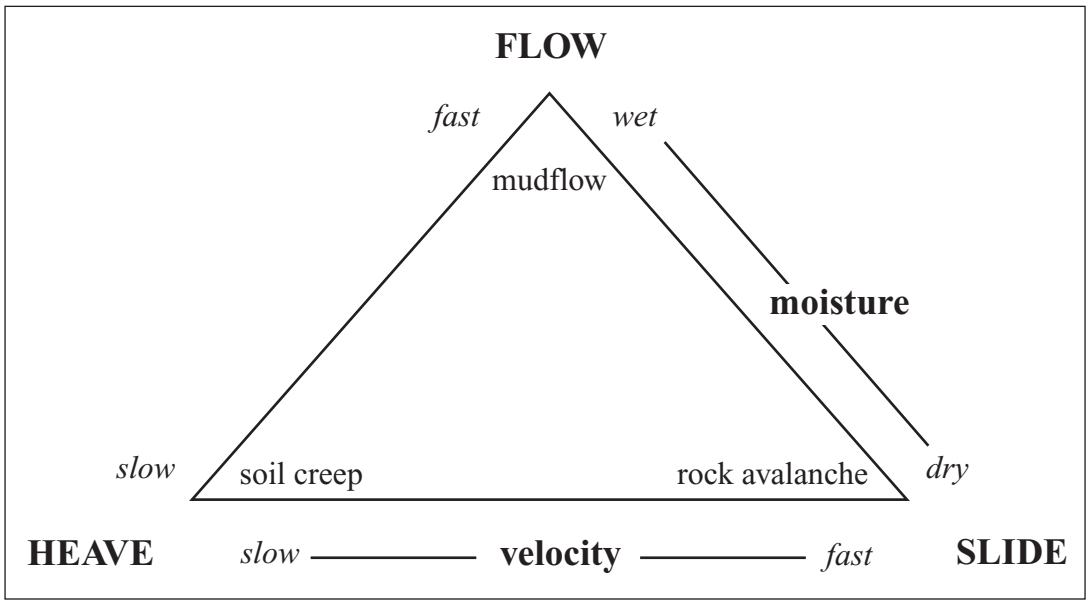
15

2 GEOMORPHOLOGICAL PROCESSES AND HAZARDS

Total for this question: *15 marks*

(a) Study **Figure 2** which illustrates some aspects of mass movement.

Figure 2



Contrast soil creep with mudflows.

.....

.....

.....

.....

.....

.....

.....

.....

(4 marks)

(b) Outline relationships between weathering and mass movement.

.....

.....

.....

.....

.....

.....

.....

.....

(4 marks)

(c) To what extent does human activity affect mass movement?

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(7 marks)

15

3 COLD ENVIRONMENTS AND HUMAN ACTIVITY

Total for this question: *15 marks*

(a) Study **Figure 3** which shows net primary productivity and biomass for two biomes.

Figure 3

BIOME	Net primary productivity ($kg/m^2/yr$)	Biomass (kg/m^2)
Tropical Rain Forest	2.20	45.0
Tundra	0.14	0.60

Account for the extremely low net primary productivity and biomass for Tundra areas.

.....

.....

.....

.....

.....

.....

.....

.....

(4 marks)

(b) Explain why Tundra food chains are typically short.

.....

.....

.....

.....

.....

.....

.....

.....

(4 marks)

(c) Contrast the ways in which human uses of cold environments such as Tundra and/or Alpine regions vary.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(7 marks)

15

Turn over for the next question

SECTION B

Answer **one** question from this section.

Total for this question: *30 marks*

Note to Candidate

You should bear in mind that essay questions 4, 5 and 6 are synoptic in nature. In your response to these questions you are required to show your knowledge and understanding of different aspects of geography, the connections between these different aspects and, where relevant, of human perspectives upon geographical themes and issues.

4 To what extent do coastal problems have a greater impact in the LEDW? *(30 marks)*

5 Knowledge of plate tectonics helps us to understand many geomorphological processes but has not significantly increased our ability to manage geomorphological hazards. Discuss this view. *(30 marks)*

6 Discuss the reasons for the diversity of use of landscapes which have been subject to glacial and periglacial processes. *(30 marks)*

END OF QUESTIONS

QUESTION NUMBER

Write the question number in the left hand margin

QUESTION NUMBER

Write the question number in the left hand margin

LEAVE MARGIN BLANK

QUESTION NUMBER

Write the question number in the left hand margin

QUESTION NUMBER

Write the question number in the left hand margin

QUESTION NUMBER

Write the question number in the left hand margin

QUESTION NUMBER

Write the question number in the left hand margin

There are no questions printed on this page

There are no questions printed on this page

ACKNOWLEDGEMENT OF COPYRIGHT-HOLDERS AND PUBLISHERS

Permission to reproduce all copyright material has been applied for. In some cases efforts to contact copyright-holders have been unsuccessful and AQA will be happy to rectify any omissions of acknowledgement in future papers if notified.

Question 1	Figures 1a & 1b	De SOER, *Spurn Head – its history and evolution*, Vol 34, © 1964. Material reproduced by kind permission of The Royal Geographical Society (with IBG).
Question 2	Figure 2	D WAUGH, *Geography: an Integrated Approach* (Nelson) 1990.
Question 3	Figure 3	WHITTAKER, *Communities & Ecosystems*, 2nd edition, © 1975. Reprinted by permission of Pearson Education Inc, Upper Saddle River, NJ.