

Surname					Other Names				
Centre Number					Candidate Number				
Candidate Signature									

For Examiner's Use

General Certificate of Education
Advanced Level Examination
Specimen Paper



GEOGRAPHY
Unit 2 Geographical Skills

GEOG2

<p>For this paper you must have:</p> <ul style="list-style-type: none"> the colour insert (enclosed). <p>You may use a calculator.</p>
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Time allowed: 1 hour

Instructions

- Use black ink or black ball-point pen. Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- Answer **all** questions in the spaces provided.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The maximum mark for this paper is 50.
- The marks for questions are shown in brackets.
- You are reminded of the need for good English and clear presentation in your answers. You will be marked on your ability to use an appropriate form and style of writing, to organise relevant information clearly and coherently, and to use specialist vocabulary where appropriate. The legibility of your handwriting and accuracy of your spelling, punctuation and grammar will also be considered.

Advice

Where appropriate, credit will be given for the use of diagrams to illustrate answers and where reference is made to your personal investigative work. You are advised to allocate your time carefully.

For Examiner's Use			
Question	Mark	Question	Mark
1			
2			
Total (Column 1)		→	
Total (Column 2)		→	
TOTAL			
Examiner's Initials			

Answer **all** questions.

- 1** (a) (i) Study **Figure 1** on the colour insert, which is a photograph of part of the valley and channel of the upper course of Golden Clough, Peak District.

Label the copy of **Figure 1** below to show the characteristics of the channel and the valley.

Figure 1



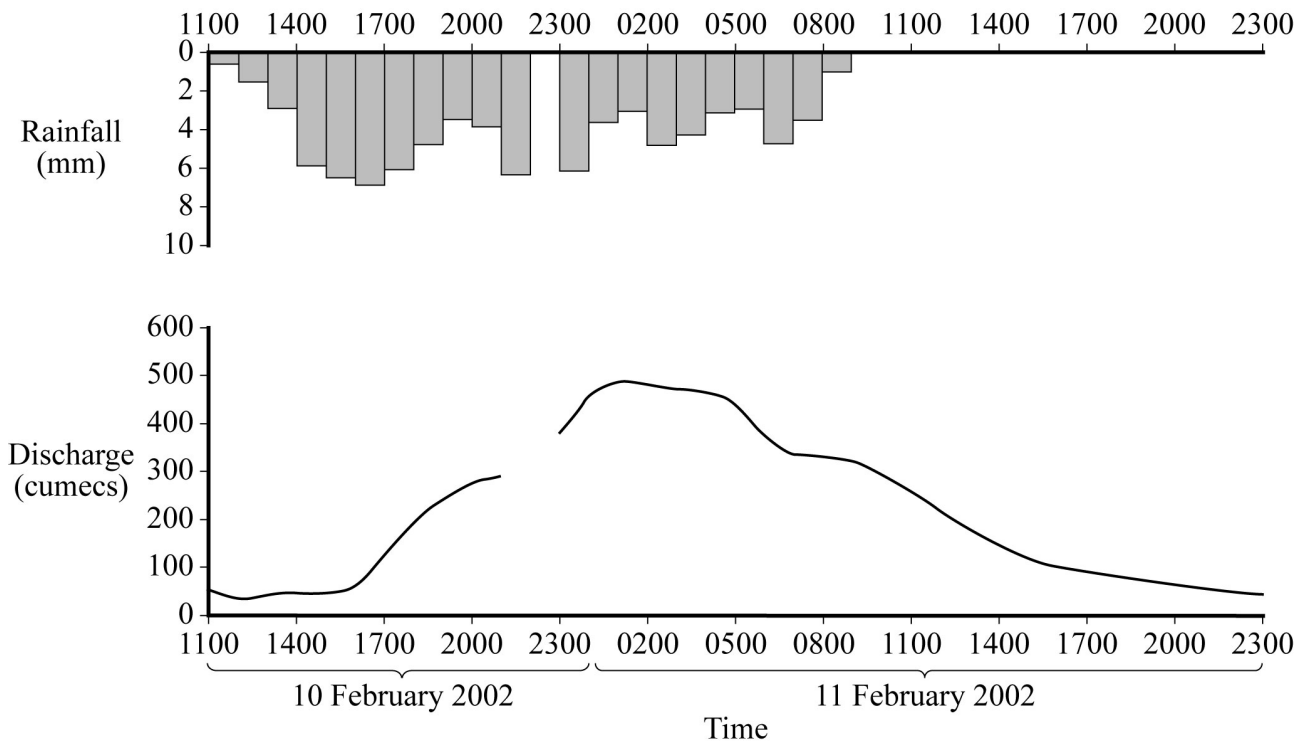
(6 marks)

- (b) (i) **Figure 3** shows the storm hydrograph for the River Conway (Afon Conwy) at Cwm Llanerch from 10 - 11 February 2002.

Complete **Figure 3** to show the following information.

Date/time	10 February 2200 hrs
Rainfall (mm)	8.4
Discharge (cumecs)	320

Figure 3



(2 marks)

- (ii) Suggest reasons for the shape of the storm hydrograph.

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(3 marks)

There are no questions printed on this page

- (c) Study **Figure 4** which is an extract from an article in a geographical publication that considers flood management in the future.

Figure 4

Memorable floods on the River Conway			
Event	Level at Cwm Llanerch (lower catchment) (metres)	Peak flow (m^3s^{-1})	Time above flood level (hours)
12-13 December 1964	4.61	513	11.25
21 November 1980	4.61	433	10.75
19 February 1990	4.44	477	20.75
13 November 1994	4.71	458	13.25
10 February 2002	4.40	500	13.75
3 February 2004	4.46	498	19.00

The future

An estimated 5 million people in the UK live in flood-risk areas. Reports of flooding are now twice as frequent as they were 100 years ago, and the risk is likely to increase as climate uncertainty persists. The current pattern suggests an increased frequency and magnitude of flood events.

A modern ‘softer’ approach to management of flood warnings and flood risk is replacing traditional views and attempts to reduce the likelihood and impacts of flood events. Geomorphologists have led the way in developing strategies for river management through ‘working with’ river processes based on natural river behaviour, such as movement of river sediment and river ecology. It is accepted that rivers are dynamic systems which are meant to flood and must have room to move. Research has shown how modifying one river feature will trigger water velocity and sediment transportation and have effects downstream of the modification. Sustainability is a key issue today and a softer management approach has environmental benefits - it helps to increase biodiversity and protect natural wetland habitats that rely on floodwaters to replenish the ecosystem.

As towns have expanded and developments have been built on floodplains, experience has shown that no level of protection will eliminate flood risk. New methods of living with this natural hazard will continue to develop.

2 You have experienced geography fieldwork as part of the course.
Use your experience of geography fieldwork to answer the following questions.

- (a) (i) In carrying out an investigation into channel changes downstream, three sites were visited in the vicinity of Golden Clough and the River Noe. These were located at grid references 121869, 122864 and 129852 on **Figure 2**, (colour insert) the Ordnance Survey map extract.

With reference to **Figure 2**, suggest reasons for the selection of these three sites.

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(3 marks)

- (ii) Outline an alternative way of sampling study sites and state an advantage of your method.

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(3 marks)

- (b) (i) For **any** geography fieldwork study that you have undertaken (either physical or human), briefly outline its aim and one hypothesis you sought to test.

Aim.....
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Hypothesis.....
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(4 marks)

- (ii) Before visiting an area for fieldwork, a risk assessment must be completed. Outline the risks associated with carrying out your fieldwork and assess the effectiveness of strategies used to minimise the risks.

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(5 marks)

(iii) For **one** item of primary data you collected for the study in (b)(i), describe the method of data collection.

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(5 marks)

(iv) Describe **one** application of ICT skills in carrying out your fieldwork and comment on its usefulness.

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(5 marks)

END OF QUESTIONS

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