



Rewarding Learning

**General Certificate of Secondary Education
2014**

Centre Number

71

Candidate Number

Geography
Unit 1:
Understanding Our Natural World
Foundation Tier

[GGG11]

TUESDAY 13 MAY, AFTERNOON



TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper.

Answer **all three** questions.

You are provided with an O.S. map for use with Question 1.

Do not write your answers on this map.

INFORMATION FOR CANDIDATES

The total mark for this paper is 108.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

Quality of written communication will be assessed in Question **3(d)**.

Spelling, punctuation and the accurate use of grammar will be assessed in questions **1(g)** and **2(d)**.

**For Examiner's
use only**

Question Number	Marks
1	
2	
3	

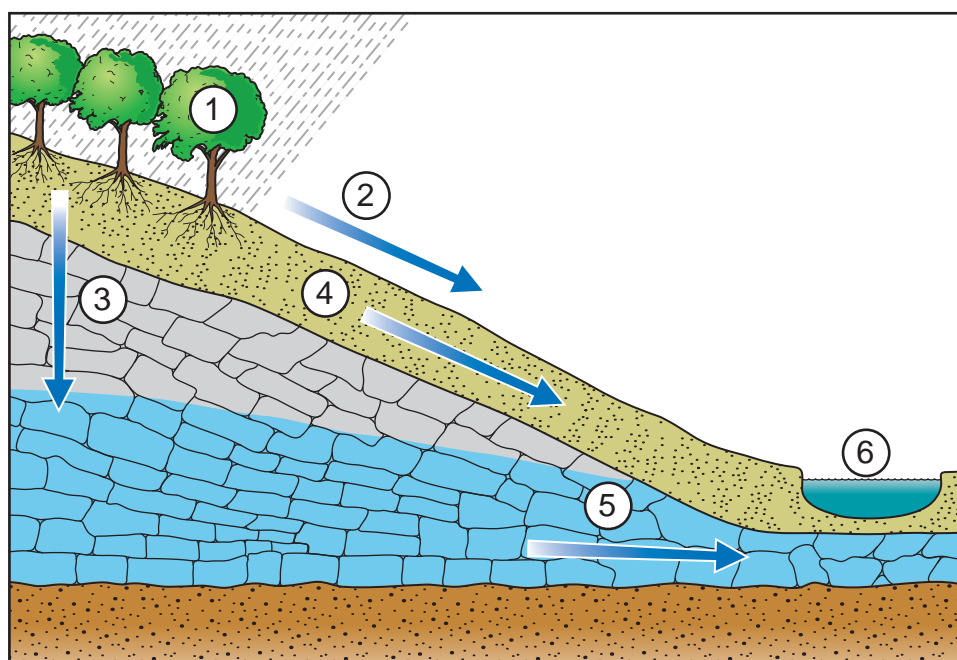
**Total
Marks**

(iii) Suggest **two** problems that may be caused by visitors to a beach.

[2]

Examiner Only	
Marks	Remark

- (d) Study **Fig. 3** which shows how water moves in a drainage basin. Answer the questions which follow.



Source: CCEA

Fig. 3

Table 1

Key	
1	
2	Surface runoff
3	
4	Throughflow
5	
6	River

[3]

- (i) Complete **Table 1** to provide a key for **Fig. 3**. Choose your answers from the list below.

groundwater flow interception discharge percolation

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- (f) Study **Fig. 4** which gives information about flood damage to the town of Morpeth, England, in September 2012. Answer the questions which follow.

The town of Morpeth was badly flooded in September 2012 when the River Wansbeck burst its banks.



© The Journal / NCJ Media / Trinity Mirror



© Minister's pledge on Morpeth flood defences work
by Ian Robson. Chronicle Live, 27th September 2012

Why it Happened

- Out-of-date flood defences could not stop the River Wansbeck bursting its banks.
- Hundreds of houses built on the floodplain were flooded.
- Over a month's rainfall (80 mm) fell in 48 hours in the worst September storm for 30 years.
- Rainwater quickly filled streams in the Cheviot Hills north of Morpeth. This water then surged into the River Wansbeck flooding the town.

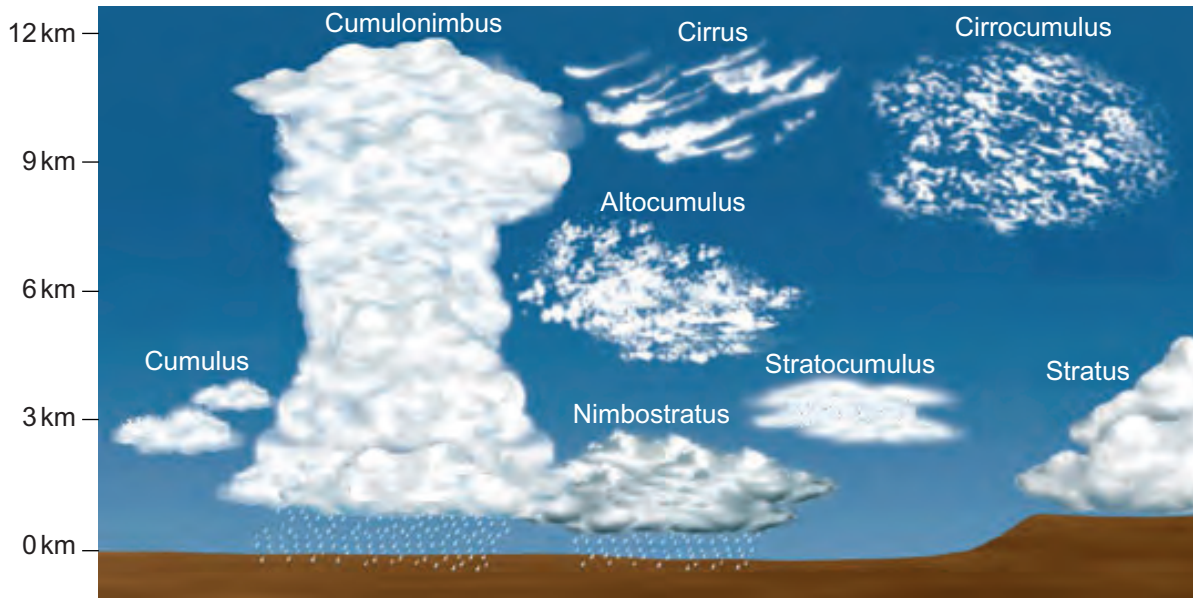
The Human Story

- 100 families fled their homes.
- 40 residents rescued by the emergency services.
- Local shops damaged by flood water and sewage.
- A local B&B was flooded and the owner is worried about the future of the business.

Fig. 4

Theme B: Our Changing Weather and Climate

- 2 (a) Study **Fig. 5** which shows different cloud types. Answer the questions which follow.



Source: <http://www.crh.noaa.gov/images/lmk/CloudChart.jpg>

Fig. 5

- (i) Underline the correct word to complete the sentences below. One has been completed for you.

Cumulonimbus/Cirrus clouds bring heavy rain.

Cumulonimbus/Cirrus clouds are thin and wispy in appearance.

Cumulus clouds can reach up to **4/12 km** in height.

Cumulonimbus clouds are found at the **warm/cold** front of a depression. [3]

- (ii) State the unit of measurement used to measure cloud cover.

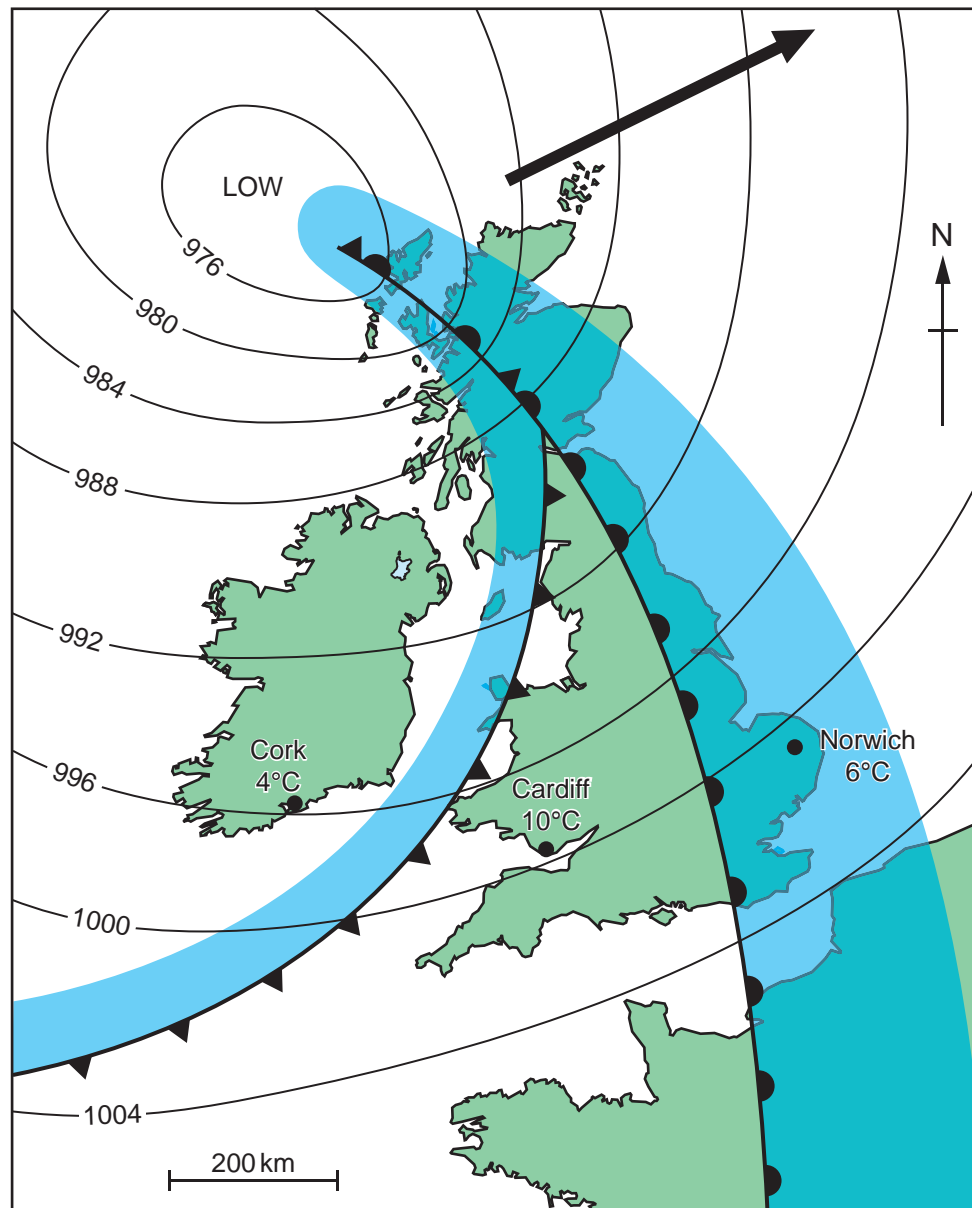
_____ [1]

(iii) Suggest **one** reason why a wind vane needs to be located in a high place.

[2]

Examiner Only	
Marks	Remark

(c) Study **Fig. 7** which shows a weather system over the British Isles. Answer the questions which follow.



© Essential AS Geography by Simon Ross, John Morgan and Richard Heelas.
Published by Nelson Thornes, 2000. Page 206 ISBN: 978-0748-75175-4







- | | | | |
|---|---|--|--|
|  | Direction of movement of weather system |  | Isobar showing air pressure in millibars |
|  | Warm front |  | Area of rainfall |
|  | Cold front | | |
|  | Occluded front | | |

Fig. 7

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(Questions continue overleaf)

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