



Centre Number

71

Candidate Number

General Certificate of Secondary Education
2011

Geography

Unit 1:

Understanding Our Natural World

Higher Tier

[GGG12]



MONDAY 13 JUNE, MORNING

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 100.

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 questions **1(a)(v)**, **1(f)(ii)** and **3(d)**.



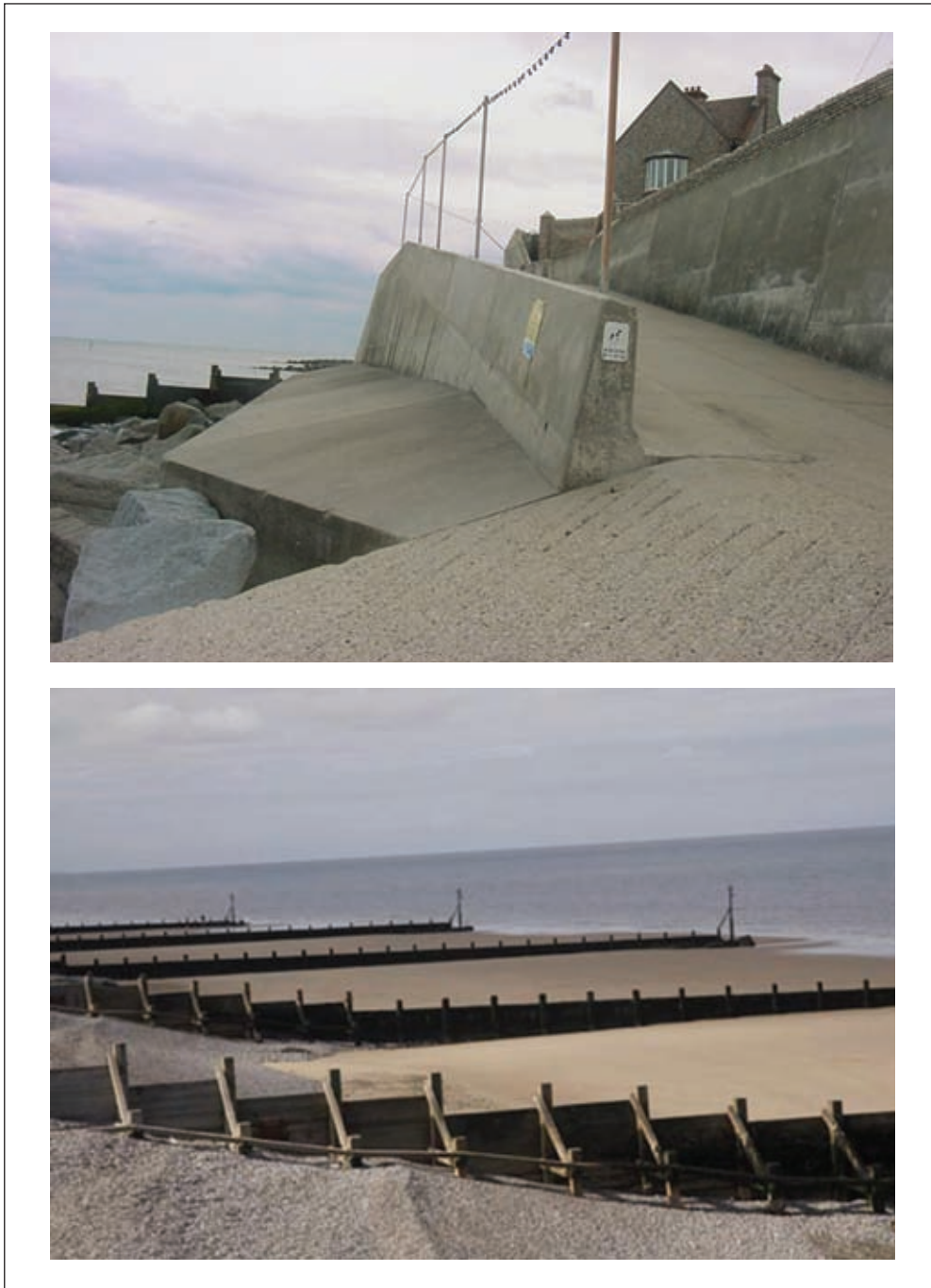
For Examiner's
use only

Question Number	Marks
1	
2	
3	

Total
Marks

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- (b) Study **Fig. 1** which shows photographs of the sea wall and groynes along the coast at Sheringham between GR 1543 and GR 1643.



Sea Wall - © William Howard School, Cumbria
Groynes - © www.walkingbritain.co.uk

Fig. 1

- (c) Study **Fig. 2** which shows some human activities in coastal areas. Select **two** of these activities and suggest how these activities might be in conflict. You should refer to a place to illustrate your answer.

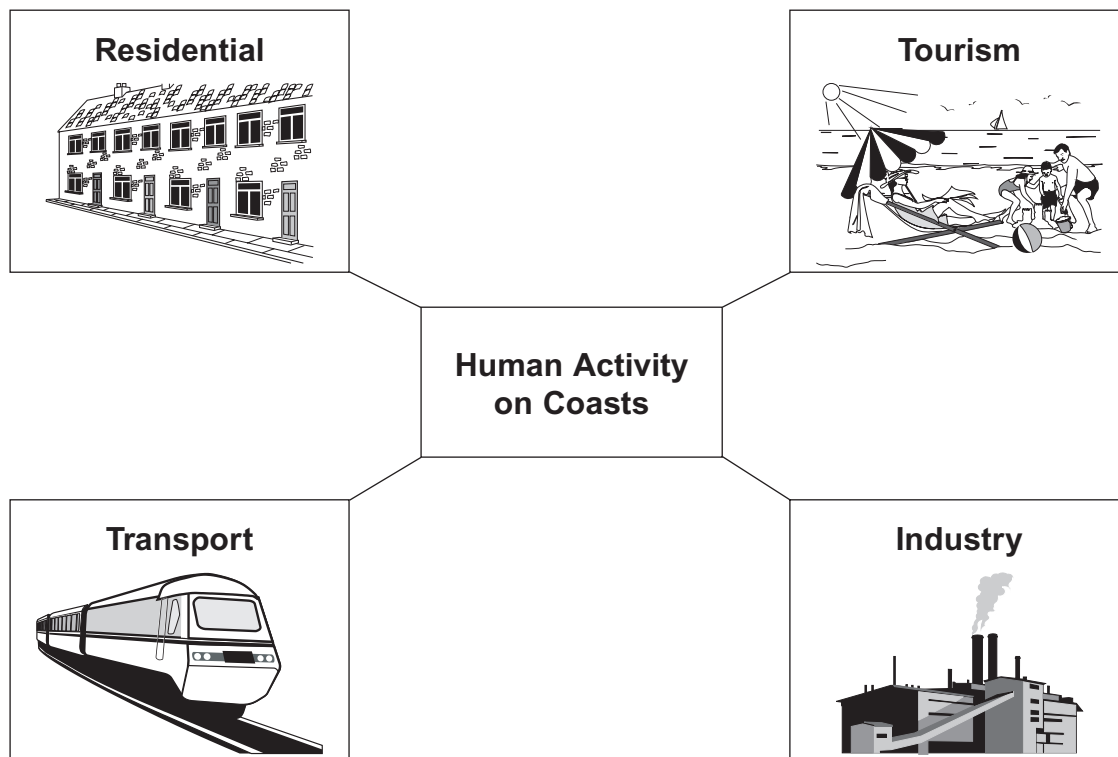


Fig. 2

Activities chosen _____ and _____.

_____ [3]

Examiner Only	
Marks	Remark

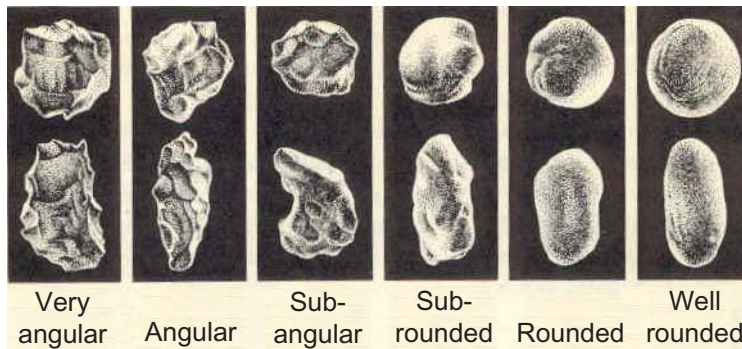
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(Questions continue overleaf)

- (d) A field study was carried out on a river in Northern Ireland. Study **Fig. 3** which shows information obtained and answer the questions which follow.

	Site 1	Site 2	Site 3	Site 4	Site 5
Distance from Source (km)	0.8	1.35	3.5	6.0	8.9
Average length of rock in cm (long axis)	12.90	11.25	10.88	9.55	7.90
Average roundness	Angular	Sub-angular	Sub-rounded	Rounded	Well-rounded



Measuring the long axis of a rock collected from the river.



Powers' Scale of Roundness

© Royal Geographical Society with IBG
© American Geological Institute

[4]

[4]

- (ii) Explain how these changes in the load occur.

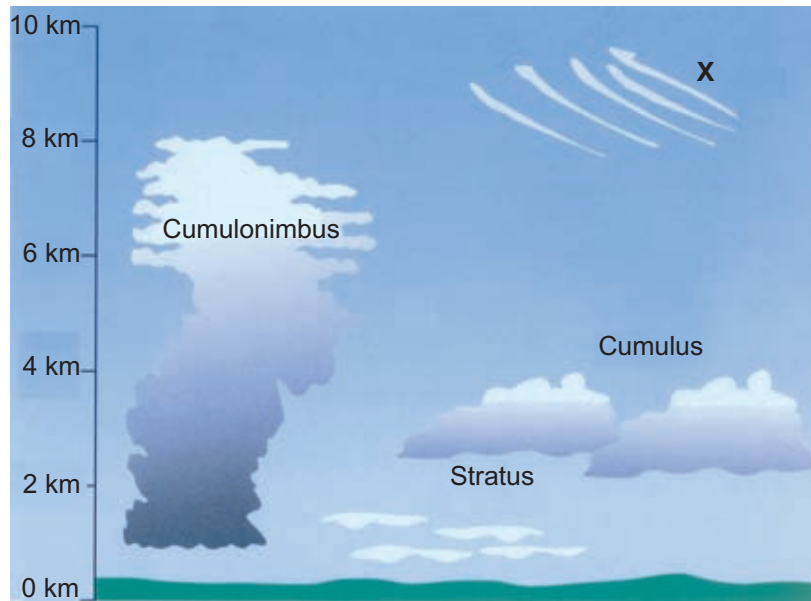
[5]

[5]

Examiner Only	
Marks	Remark

Theme B: Our Changing Weather and Climate

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



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Fig. 5

- (i) Name the type of cloud at **X**.

[1]

- (ii)** State the type of cloud associated with thunderstorms.

[1]

Examiner Only	
Marks	Remark

[3]

[2]

Examiner Only	
Marks	Remark

(c) Study **Fig. 6** which shows information about a weather system. Answer the questions which follow.

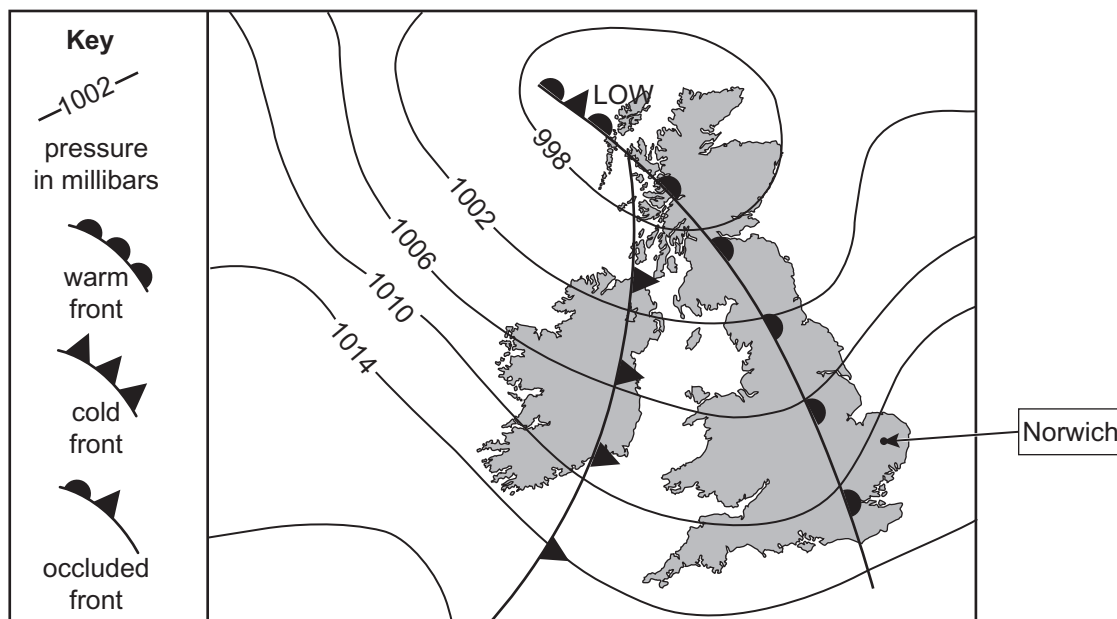


Fig. 6

(i) What is a synoptic chart?

[2]

(ii) State the name of the weather system located over the British Isles.

[1]

Examiner Only	
Marks	Remark

Description

[2]




[3]

Examiner Only	
Marks	Remark

Theme C: The Restless Earth

- 3 (a) Study **Table 1** which gives information about three rocks. Answer the questions which follow.

Table 1

Picture of rock	Simple characteristics of rock	Name of rock
	Rough texture, hard, speckled igneous rock.	
	Quite hard sedimentary rock with a granular structure.	sandstone
	Dark grey metamorphic rock with layers which split easily.	

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- (i) Complete **Table 1** by writing in the names of the first and last rocks in the table. [2]

- (ii) Choose **one** of the rocks from **Table 1** and explain how it was formed.

[3]

[4]

[Turn over

The earthquake, which had a shallow focus, resulted in almost 200 000 deaths and widespread destruction.



Fig. 8

- (i) Name the group of islands to the north of Haiti.

 [1]

- (ii) Explain why earthquakes in LEDCs tend to cause more deaths than those in MEDCs.

[illegible]

Examiner Only	
Marks	Remark

THIS IS THE END OF THE QUESTION PAPER

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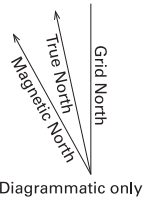
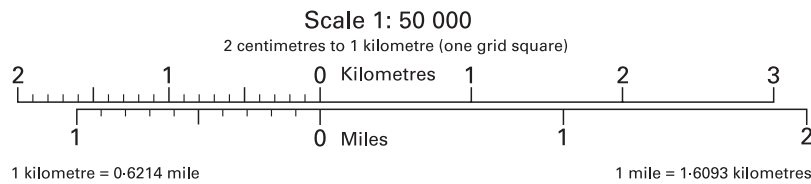


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ROADS AND PATHS

Not necessarily rights of way

Junction number

Service area

Elevated

Unfenced

Dual carriageway

Footbridge

Road under construction

Secondary road

Narrow road with passing places

Bridge

Road generally more than 4m wide

Road generally less than 4m wide

Path / Other road, drive or track

Gradient: steeper than 20% (1 in 5), 14% to 20% (1 in 7 to 1 in 5)

Gates, Road tunnel

Ferry (passenger), Ferry (vehicle)

RAILWAYS

Track multiple or single

Track under construction

Siding

Tunnel, cuttings

Light rapid transit system, narrow gauge or tramway

Bridges, footbridge

Level crossing

Viaduct, embankment

Station, (a) principal

Light rapid transit system station

LAND FEATURES

Electricity transmission line (pylons shown at standard spacing)

Pipe line (arrow indicates direction of flow)

Buildings

Important building (selected)

Bus or coach station

Current or former place of worship

Place of worship

Glass structure

Heliport

Triangulation pillar

Mast

Wind pump, wind turbine

Windmill with or without sails

Graticule intersection at 5' intervals

Cutting, embankment

Landfill site or slag/spoil heap

Coniferous wood

Non-coniferous wood

Mixed wood

Orchard

Park or ornamental ground

Forestry Commission land

National Trust (always open / limited access, observe local signs)

WATER FEATURES

Marsh or salting

Towpath

Lock

Ford

Beacon

Sand

Dunes

Cliff

Shingle

Lighthouse (in use)

Flat rock

Lighthouse (disused)

Low water mark

High water mark

Mud

Canal (dry)

Aqueduct

Weir

Footbridge

Bridge

Normal tidal limit

HEIGHTS

1 metre = 3·2808 feet

Contours are at 10 metres vertical interval

Heights are to the nearest metre above mean sea level

Where two heights are shown the first height is to the base of the triangulation pillar and the second (in brackets) to the highest natural point of the hill

PUBLIC RIGHTS OF WAY

Footpath

Bridleway

Restricted byway

Byway open to all traffic

The symbols show the defined route so far as the scale of mapping will allow.

The representation on this map of any other road, track or path is no evidence of the existence of a right of way.

Danger Area Firing and Test Ranges in the area. Danger! Observe warning notices.

ROCK FEATURES

Outcrop

Cliff

Scree

OTHER PUBLIC ACCESS

Other route with public access (not normally shown in urban areas). Alignments are based on the best information available. These routes are not shown on maps of Scotland.

On-road cycle route

Traffic-free cycle route

National Cycle Network number

Regional Cycle Network number

National Trail, European Long Distance Path, Long Distance Route, selected Recreational Routes

TOURIST INFORMATION

Camp site / caravan site

Garden

Golf course or links

Information centre (all year / seasonal)

Nature reserve

Parking, Park and ride (all year / seasonal)

Picnic site

Recreation / leisure / sports centre

Selected places of tourist interest

Telephone, public / roadside assistance

Viewpoint

Visitor centre

Walks / Trails

World Heritage site or area

Youth hostel

ABBREVIATIONS

Br Bridge

Cem Cemetery

CG Cattle grid

CH Clubhouse

Fm Farm

Ho House

MP Milepost

MS Milestone

Mus Museum

P Post office

PC Public convenience (in rural areas)

PH Public house

Sch School

TH Town Hall, Guildhall or equivalent