

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel GCSE

Geography A

Unit 1: Geographical Skills and Challenges

Higher Tier

Thursday 20 January 2011 – Afternoon

Paper Reference

Time: 1 hour

5GA1H/01

You must have:

Resource Booklet (enclosed)

Ordnance Survey Map Extract (enclosed)

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 50.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed
– *you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

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SECTION A – GEOGRAPHICAL SKILLS

Answer ALL questions in this section.

1 (a) Study the Ordnance Survey (OS) map extract of Ross-on-Wye and Figure 1a (Photograph) in the Resource Booklet.

(i) Figure 1a was taken at grid reference 597241 facing north-west.

1. Name the river that can be seen in the photograph.

(1)

2. In the background of the photograph there is a road.

What is the number of the road in the background of the photograph?

(1)

(ii) Ross-on-Wye is a town which many tourists visit.

State **two** pieces of map evidence to justify this statement.

(2)

(b) Study Figure 1b and the OS map extract.

Figure 1b is a cross-section from 540292 to 610260.

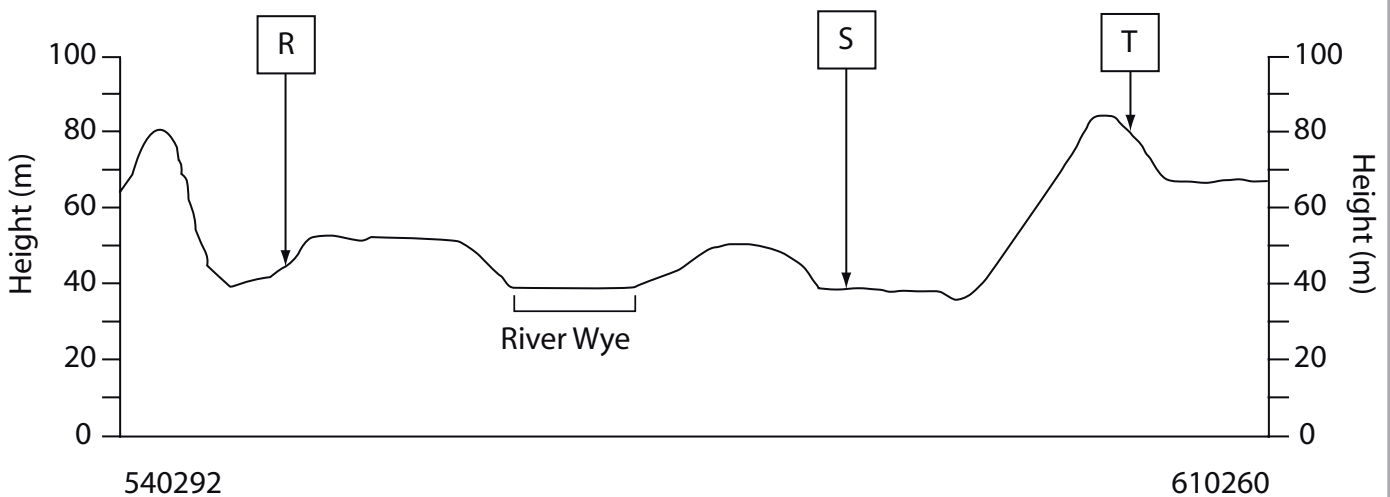


Figure 1b



- (i) What is the land use/feature found at **R**, **S** and **T** in Figure 1b? (3)

letter	land use/feature
R	
S	
T	

- (ii) The cross-section crosses the River Wye in **three** places.
 One of these places is shown in Figure 1b.
 Mark with a **W** on Figure 1b, the other **two** places where the cross-section crosses the River Wye. (2)

- (iii) What is the height of the highest point on the cross-section?
 Use the OS map extract to help you. (1)
- metres

- (c) Look again at the OS map extract.
 Find King's Caple in grid square 5628 and grid square 5629.
 Describe the site and shape of King's Caple. (4)

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(Total for Question 1 = 14 marks)



2 Study Figures 2a and 2b.

They show the average annual rainfall and the relief of Great Britain.

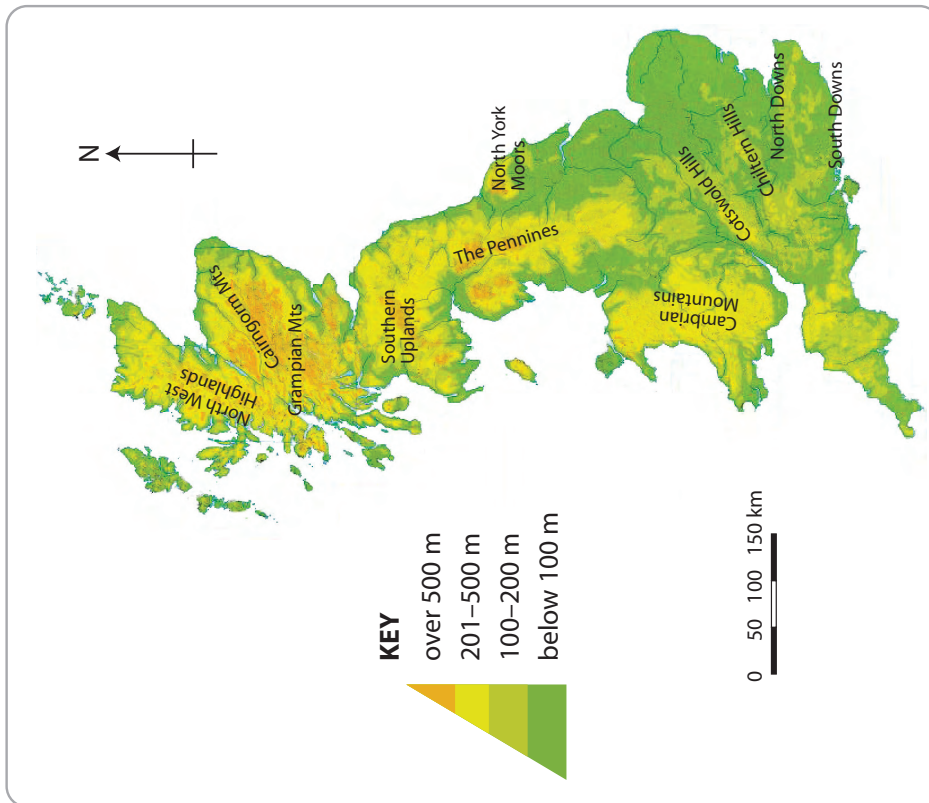


Figure 2b

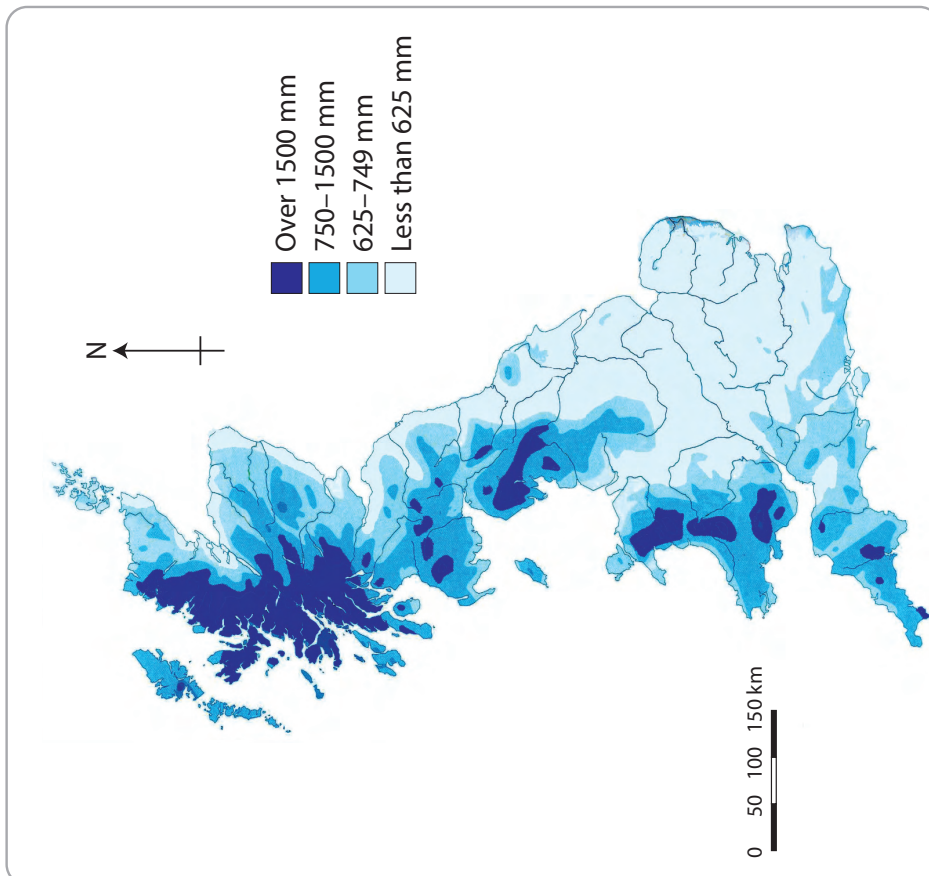


Figure 2a



(a) Describe the distribution of rainfall shown in Figure 2a.

Use data in your answer.

(5)

(b) Relief affects the amount of rainfall received by different parts of the UK.

Outline how.

Only use evidence from Figure 2a and Figure 2b in your answer.

(4)



(c) The maps in Figure 2a and Figure 2b could have been created using GIS.

State **two** advantages of using GIS compared to looking at the maps separately.

(2)

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(Total for Question 2 = 11 marks)

TOTAL FOR SECTION A = 25 MARKS



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TURN OVER FOR SECTION B



SECTION B – CHALLENGES FOR THE PLANET

Answer ALL questions in this section.

3 Study Figure 3.

It shows regional carbon dioxide (CO₂) emissions from fossil fuels.

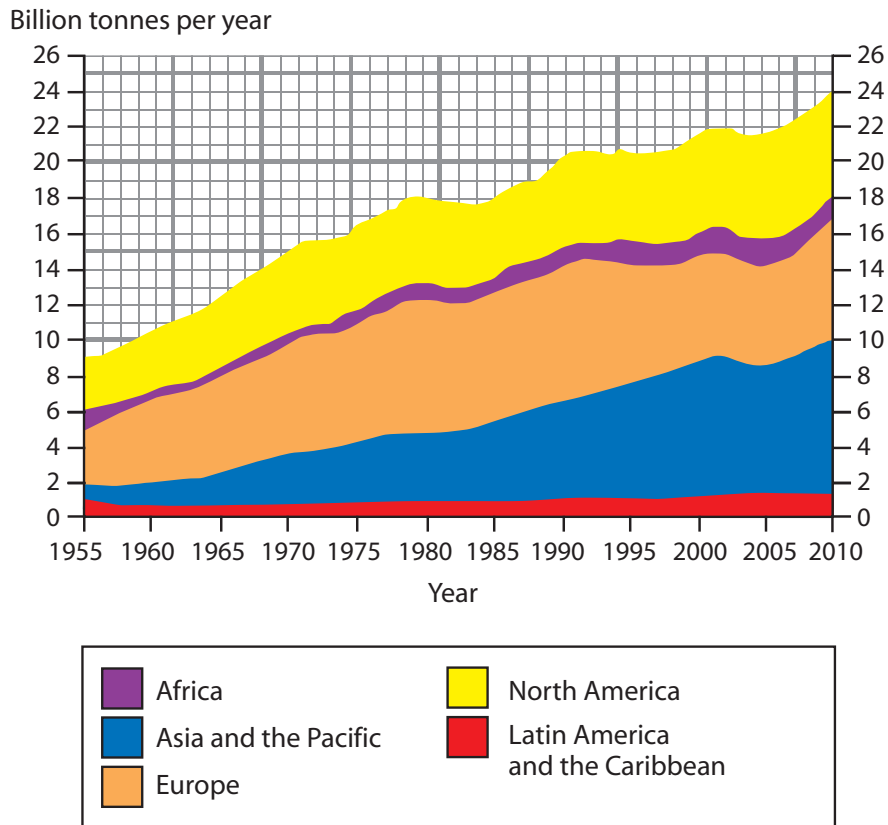


Figure 3

(a) Which region has seen the greatest increase in CO₂ emissions from fossil fuels between 1955 and 2010?

(1)

(b) Which region has doubled its CO₂ emissions from fossil fuels between 1955 and 2010?

(1)

(c) Name **one** fossil fuel.

(1)



(d) Outline how fossil fuels have caused the increase in CO₂ emissions.

(4)

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(e) Explain **two** other causes of climate change since the last ice age.

(4)

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(Total for Question 3 = 11 marks)



4 (a) Study Figure 4.

It shows Haytor Visitor Centre in Dartmoor National Park.

It is a tourist facility that has been made more sustainable.

The hand dryers are specially developed to use 70% less energy than other hand dryers

Some of the light fittings are Sunpipes which bring natural light into the toilet area from the roof

The roof is insulated with sheep's wool



The heaters have a special setting. They only come on when the temperature goes below 3°C

The water for the toilets is collected from the roof and then stored underground until it is needed

The walls are made from timber which will naturally insulate the building

Figure 4

(i) What is sustainable development?

(1)

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(ii) Outline how the centre is sustainable in its use of energy and water.

(4)

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(iii) Dartmoor National Park Authority is one large organisation that is being more sustainable.

Explain the policies **one other** large organisation has developed to make it more sustainable.

(3)

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*** (b)** Explain the management initiatives used in rainforest areas where resources have been extracted.

Use examples in your answer.

(6)

A series of 26 horizontal dotted lines for writing the answer.

(Total for Question 4 = 14 marks)

TOTAL FOR SECTION B = 25 MARKS
TOTAL FOR PAPER = 50 MARKS



Edexcel GCSE

Geography A

Unit 1: Geographical Skills and Challenges

Paper 1F and 1H

Thursday 20 January 2011 – Afternoon
Resource Booklet

Paper Reference
5GA1F/01
5GA1H/01

Do not return the resource booklet with the question paper.

Information

This Resource Booklet contains a photograph needed for use with the Unit 1: Geographical Skills and Challenges examination.

This Resource Booklet is for use with both foundation and higher tiers.

Turn over ►

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(Source: S Warren)

Figure 1a



Four colours should appear above; if not then please return to the invigilator.
Four colours should appear above; if not then please return to the invigilator.

ROADS AND PATHS

Not necessarily rights of way

	Junction number	

RAILWAYS

WATER FEATURES

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. Not shown on maps of Scotland

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

BOUNDARIES

	National
	District
	County, Unitary Authority, Metropolitan District or London Borough
	National Park

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

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

ABBREVIATIONS

Br	Bridge	MS	Milestone
Cemy	Cemetery	MUS	Museum
CG	Cattle grid	P	Post office
CH	Clubhouse	PC	Public convenience (in rural areas)
Fm	Farm	PH	Public house
Ho	House	Sch	School
MP	Milepost	TH	Town Hall, Guildhall or equivalent

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

ANTIQUITIES

	Site of antiquity
	Battlefield (with date)
	Visible earthwork
	VILLA Roman
	Non-Roman

