

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel GCSE

Geography A

Unit 1: Geographical Skills and Challenges

Higher Tier

Friday 20 January 2012 – Afternoon

Time: 1 hour

Paper Reference

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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PEARSON

SECTION A – GEOGRAPHICAL SKILLS

Answer ALL questions in this section

- 1 (a) Study the Ordnance Survey (OS) map extract of South Devon and Figure 1a (photograph) in the Resource Booklet.

The photograph was taken at 860480.

The photograph was taken looking in a south-westerly direction.

Complete the table below.

(3)

Letter on photograph	Instruction	Space for answer
D	Give the grid square where Forest Cove is located	
E	Name the settlement (village)	
F	Name the point	

- (b) Complete the table to provide information about two rivers on the OS map extract.

(4)

	River flowing into Slapton Ley	River flowing into Lannacombe Bay
The mouth of the river		8037
The source of the river	7847	
Vegetation along the banks of the river		Grassland
Name of a settlement close to the river	Colehanger	



(c) Study the Ordnance Survey (OS) map extract.

A family who are staying at Torcross (8242) wish to drive to Salcombe (7338).

Plan their route using only settlement names, road numbers and directions.

You may use a sketch map in your answer.

(3)

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(d) Study the OS map extract and Figure 1b (photograph) of Slapton Ley in the Resource Booklet.

Photograph 1b was taken in grid square 8241.

Figure 1c is an incomplete sketch of the photograph.

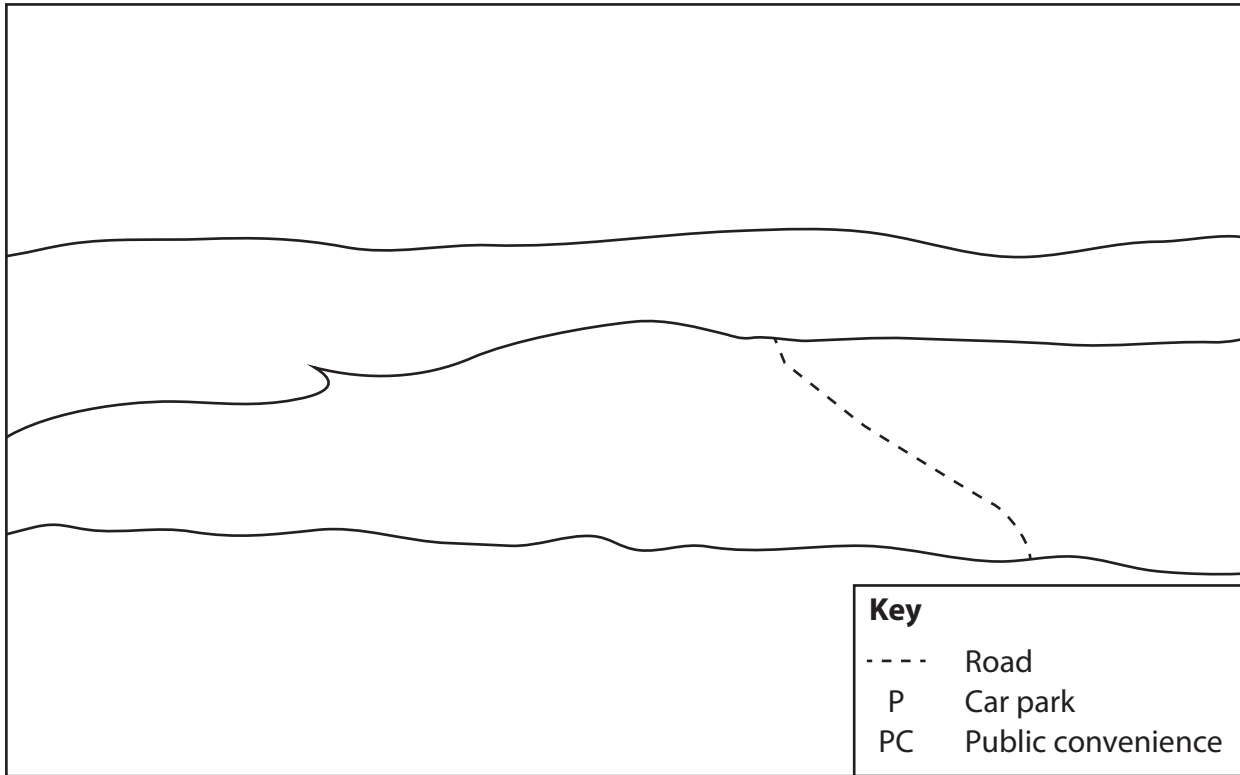


Figure 1c

Complete the sketch by adding the following features:

(4)

- the outline of Slapton Ley
- the bar (beach).

Using the key provided, label the following features in the correct positions on the sketch:

- the car park at Torcross
- the public convenience at Slapton Sands.

(Total for Question 1 = 14 marks)



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Turn over for Question 2



P 3 9 8 6 0 R A 0 5 1 6

2 (a) Study Figure 2.

It shows the population densities of some parishes in South Devon.

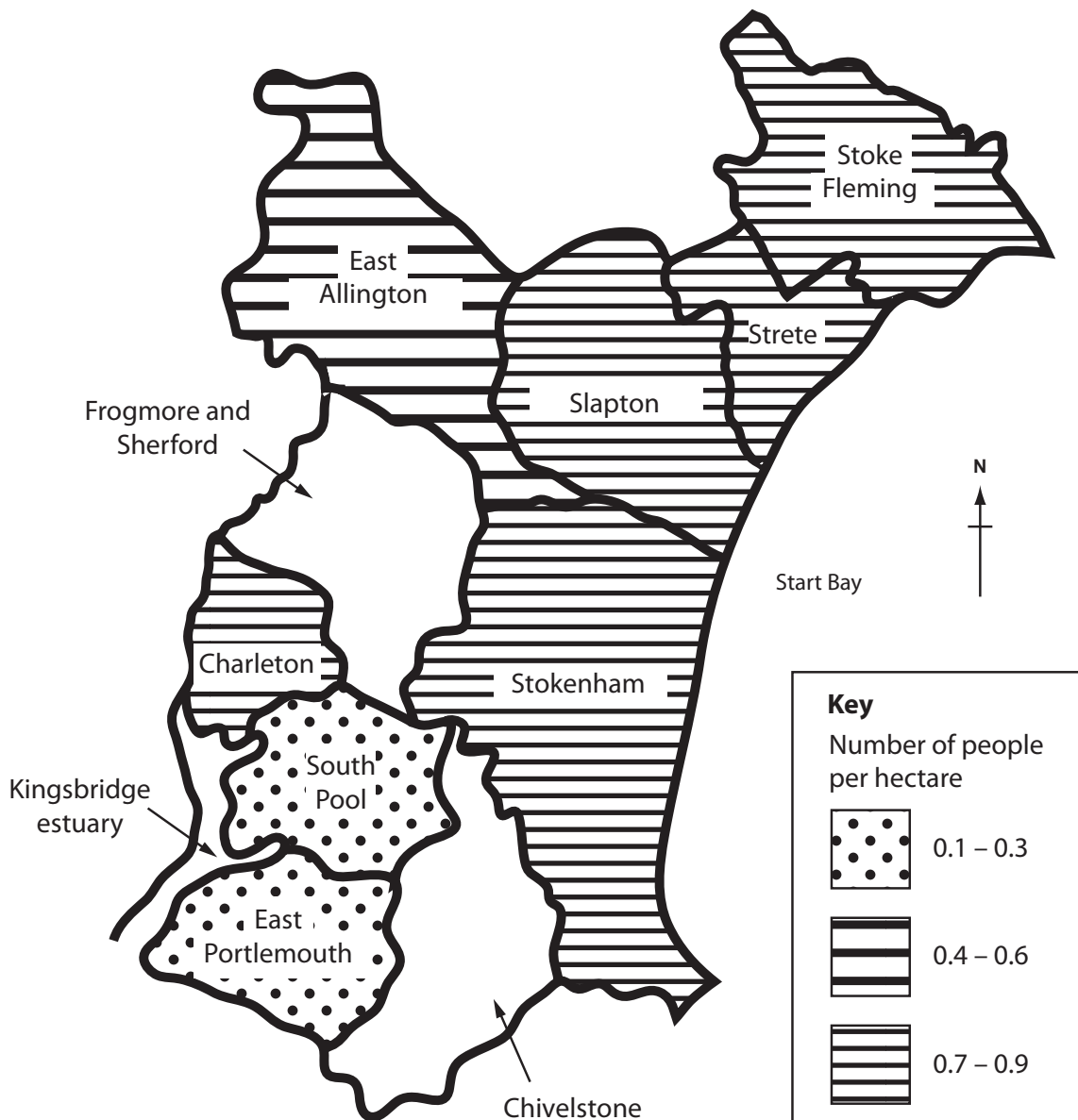


Figure 2

(i) Complete Figure 2.

Use the data in the table below.

(2)

Parish	Population density (number of people per hectare)
Frogmore and Sherford	0.4
Chivelstone	0.2



(ii) Describe the pattern of population density shown on Figure 2.

Use population density data in your answer.

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(iii) Figure 2 is a choropleth map.

State **one** advantage and **one** disadvantage of using a choropleth map to display data.

(2)

Advantage

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Disadvantage

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(b) Geographical Information Systems (GIS) could be used to display the population data in Figure 2.

(i) What is meant by the term Geographical Information Systems (GIS)?

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(ii) The population densities for some South Devon parishes is shown on Figure 2.

State **one** other piece of information that could be added using GIS to make the map more useful.

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(Total for Question 2 = 11 marks)

TOTAL FOR SECTION A = 25 MARKS



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Turn over for Question 3



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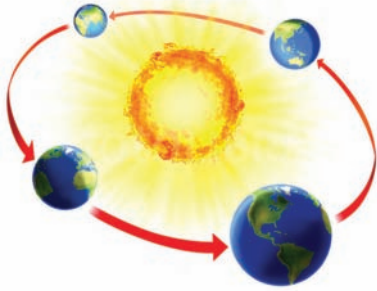
SECTION B – CHALLENGES FOR THE PLANET

Answer ALL questions in this section

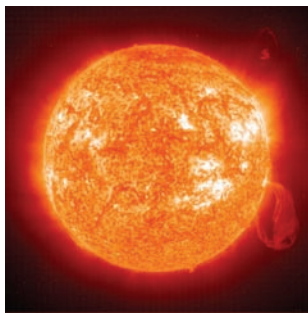
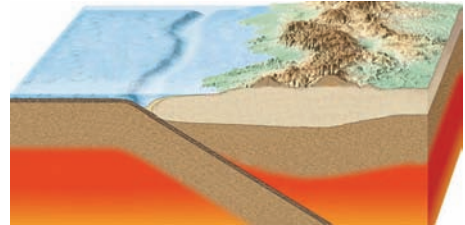
3 (a) Study Figure 3.

It shows some of the factors that have caused climate change in the last 10,000 years.

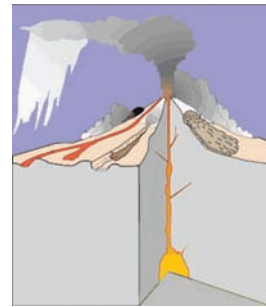
Orbital geometry



Tectonic activity



Solar output



Volcanic activity

Figure 3

(i) Choose **two** of the factors shown on Figure 3.
Outline how each factor causes climate change.

(4)

1. Name of factor

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(b) Describe **one** response to climate change on a global scale.

(3)

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(Total for Question 3 = 11 marks)



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4 (a) Study Figure 4.

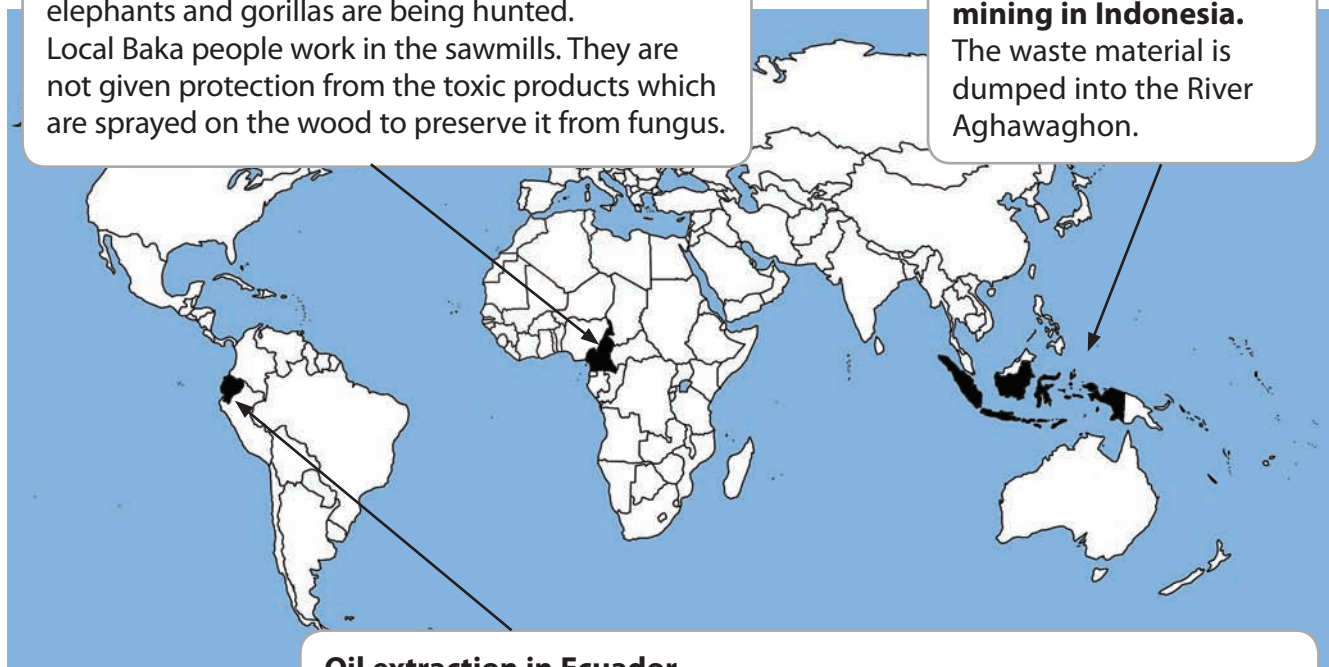
It shows some effects of resource extraction in tropical rainforest areas.

Logging in Cameroon.

Logging has opened up the forest. Animals such as elephants and gorillas are being hunted. Local Baka people work in the sawmills. They are not given protection from the toxic products which are sprayed on the wood to preserve it from fungus.

Gold and copper mining in Indonesia.

The waste material is dumped into the River Aghawaghon.



Oil extraction in Ecuador.

Hydrocarbons are concentrated in the river. The local people drink the river water. Stomach cancer is five times more frequent in oil exploitation areas. The periwinkle is becoming endangered.

Figure 4

- (i) Explain **two** effects of resource extraction in tropical rainforest areas.

One effect should be on the environment and the other on the local people.

Use evidence from Figure 4 in your answer.

(4)

Environment

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Edexcel GCSE

Geography A

Unit 1: Geographical Skills and Challenges

Paper 1H

Friday 20 January 2012 – Afternoon
Resource Booklet

Paper Reference
5GA1H/01

Do not return the resource booklet with the question paper.

Information

This Resource Booklet contains photographs needed for use with the Unit 1: Geographical Skills and Challenges examination.
This Resource Booklet is for use with the higher tier paper only.

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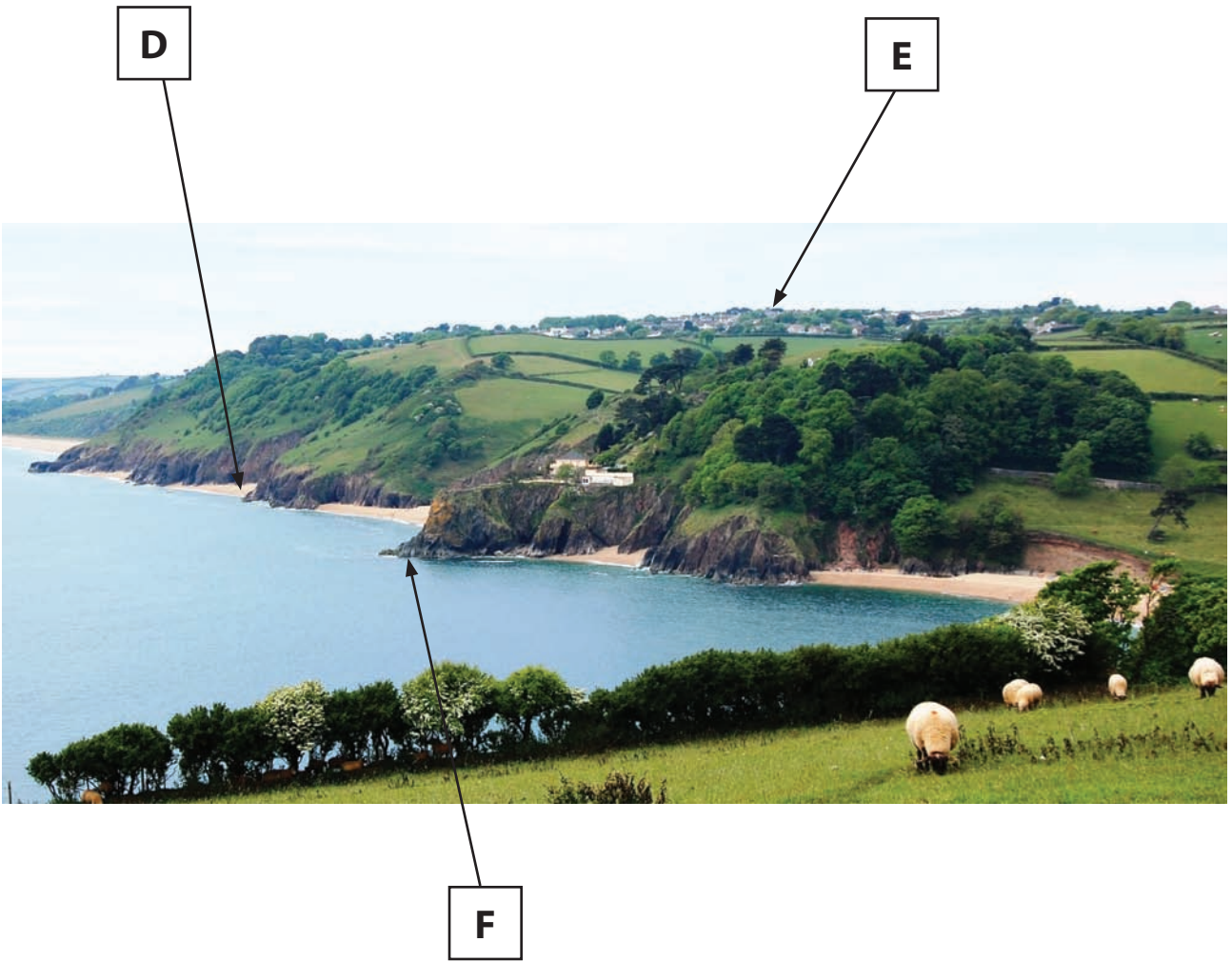


Figure 1a



Figure 1b

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

ROADS AND PATHS Not necessarily rights of way

	Junction number		
			Motorway (dual carriageway)
			Primary Route (recommended through route)
			Main road
			Road under construction
			Secondary road
			Narrow road with passing places
			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

WATER FEATURES

HEIGHTS

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.

OTHER PUBLIC ACCESS

	National Cycle Network number
	Regional Cycle Network number
	On-road cycle route
	Traffic-free cycle route
	National Trail, European Long Distance Path, Long Distance Route, selected Recreational Routes

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
	Current or former place of worship (with tower with spire, minaret or dome)
	Place of worship
	Glass structure
	Helipoint
	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

