Surname	•
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Centre Number

First name(s)

GCSE



3110U10-1

MONDAY, 23 MAY 2022 - MORNING

GEOGRAPHY Unit 1: Changing Physical and Human Landscapes

1 hour 30 minutes

	For Examiner's use only				
		Maximum Mark	Mark Awarded		
	Question 1	28			
	Question 2	28			
	Writing accurately	3			
either	Question 3	24			
or	Question 4	24			
	Total	83			

ADDITIONAL MATERIALS

Resource Folder.

In addition to this paper you may use a calculator and a ruler if required.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **both** questions in Section A.

Answer **one** question from Section B.

Write your answers in the spaces provided in this booklet.

Additional space is provided for some questions within the booklet (if required). If further space is required for any question, you should use the lined page(s) at the end of this booklet. The question number(s) should be clearly shown.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question.

Your ability to communicate and organise your ideas will be assessed in questions that are worth 6 or 8 marks. The accuracy of your writing will be assessed in your answer to question 2(c).



				2			Ex
				SECTION A - CO	RE THEMES		
				Answer all questions	s in this sectior	l.	
			THEM	/IE 1: Landscapes an	d Physical Pro	ocesses	
•				t of the area around Ll			
	(a)	(i)	In which of th meet? Tick (ne following grid squar ✓) the correct answer	es do the rivers in the box belo	s Afon Dulais and Afon Tywi w.	[1]
				Grid Square	Tick (√)		
				7132			
				3172			
				7131			
		(ii)	Give the dire	ction of flow of the Afo	n Dulais.		[1]
		·····					
		(iii)	Describe the evidence.	relief (shape of the lar	nd) in Box A sh	own on the map. Use map	[4]
		••••••					
		•••••					
		·····					
		•••••					
		(iv)	The process	of abrasion takes plac	e in the Afon D	ulais. Describe this process.	[2]
		•••••					



(b)	(i)	The scale of the map has a ratio of 1:50000.	Examiner only
		The distance between Llanwrda and Llandovery railway stations is 12 cm on the map. Calculate the actual distance in kilometres. Show your working. [2]	
		A service de la la sectore de la se	
		Answer kilometres	
	(ii)	Suggest how the route of the railway line has been affected by landforms. Use map evidence to help your answer. [3]	
	.		
	······		
	<u>.</u>		3110U101 03
	······		
]
03		© WJEC CBAC Ltd. (3110U10-1) Turn over.	

(iii)	Different processes change river landforms. Suggest why landforms in Box B have changed over time. Use evidence from the map to support your answer. [6]	∃Exa o

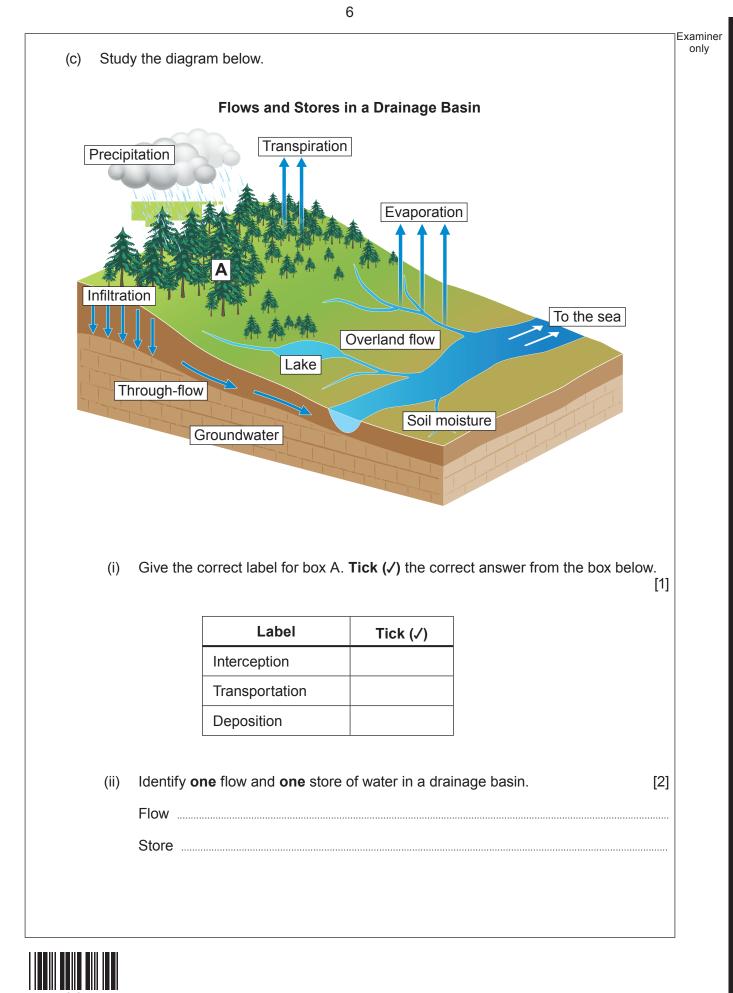


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5

PLEASE DO NOT WRITE ON THIS PAGE







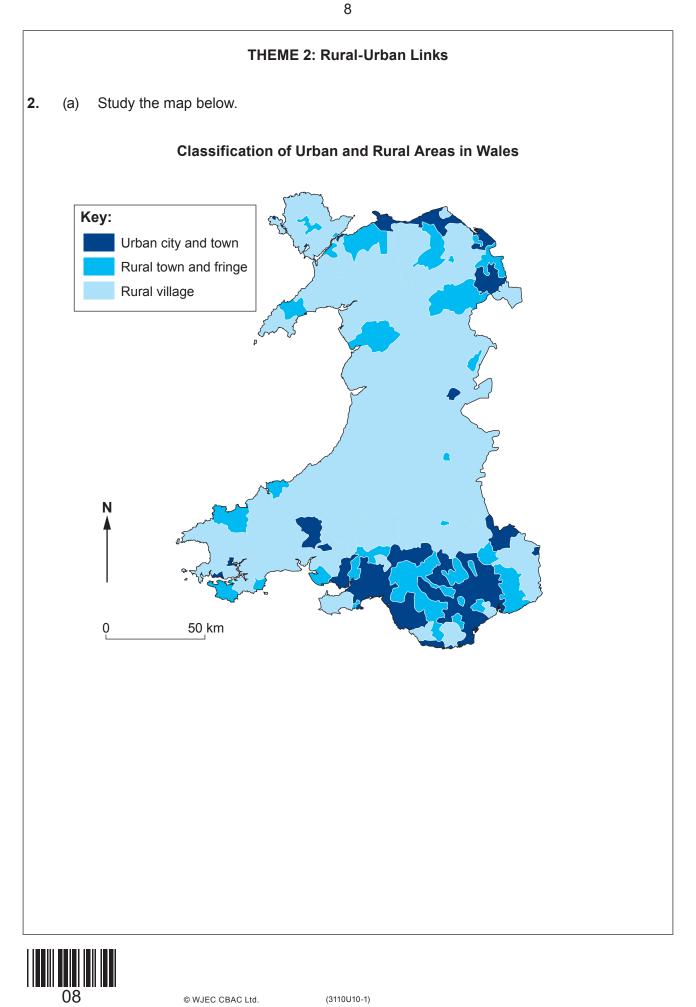
Changes in weather and climate can affect the balance between stores and flows in a drainage basin in the UK. Explain why. [6] [6] Additional space for **1**(c)(iii) only: **End of Question 1**

7



(iii)

Examiner only





Tick (/) three statements from the box below that are true. (i)

Statement	True (√)
Around 70% of Wales can be classed as rural.	
North Wales is the most urbanised.	
Most of central and west Wales consists of rural settlements.	
There are no villages in central Wales.	
Around 10% of Wales can be classed as urban.	
More urban settlements are in south-east and north-east Wales.	

Tick (/) two characteristics of a rural settlement from the list below. (ii)

[2]

3110U101 09

Examiner only

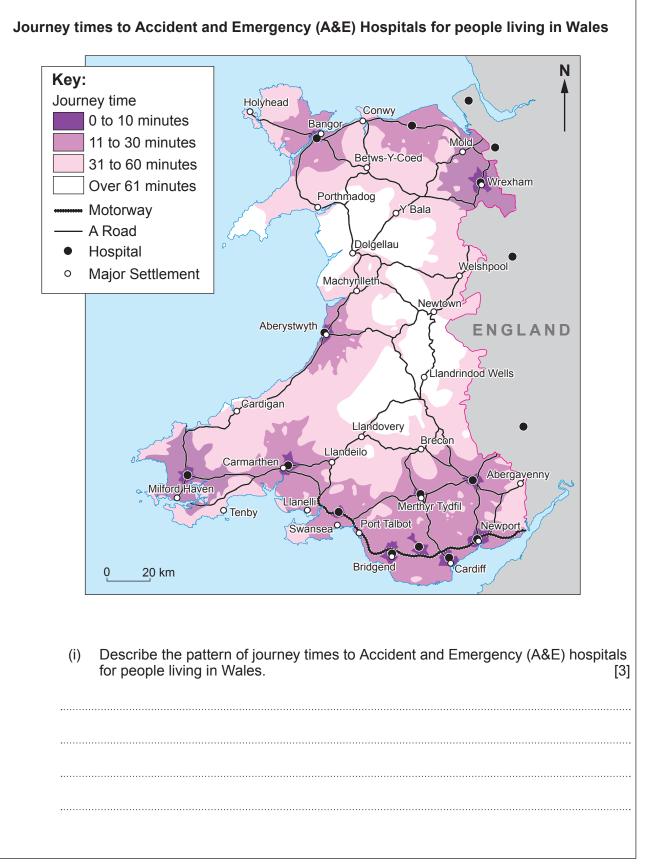
[3]

Characteristics of a Rural Settlement	Rural (√)
Large number of shops and businesses.	
Low population density.	
Surrounded by farmland and countryside.	
Many brownfield sites to build on.	
Linked together by a varied transport network.	

.....

(iii) Give one reason why mid-Wales is mainly rural. [2]

(b) Study the map below.





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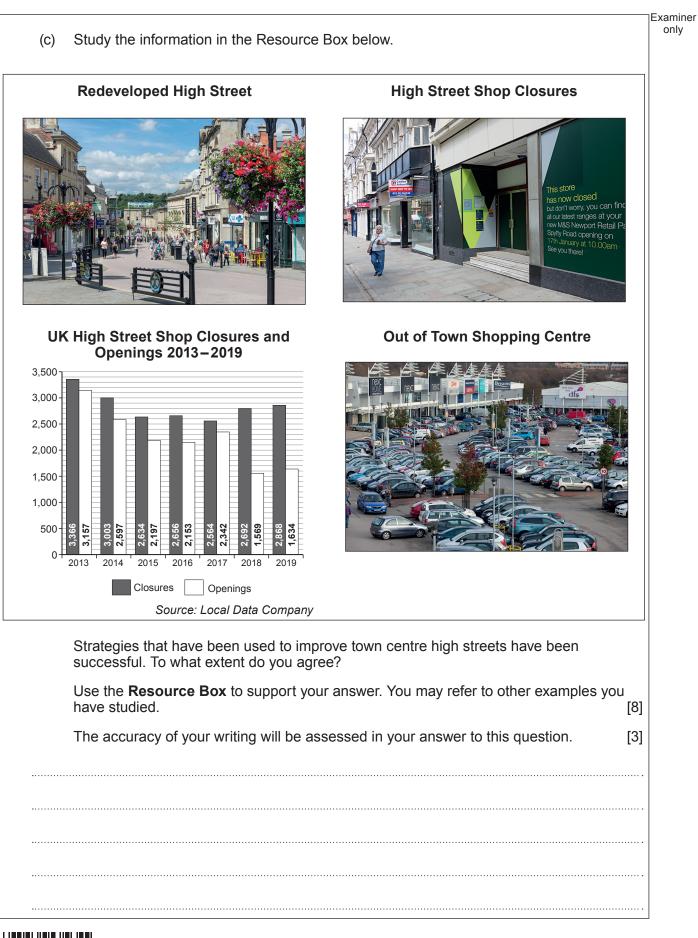
Examiner only

Examiner only

> 3110U101 11

(ii)	Access to health care is a challenge facing people who live in remote rural of Wales. Describe two other challenges.	are
	1	
	2	
(iii)	Explain why the increasing importance of urban areas is contributing to deprivation in rural areas of Wales.	







..... _____

Additional space for question 2(c) only:

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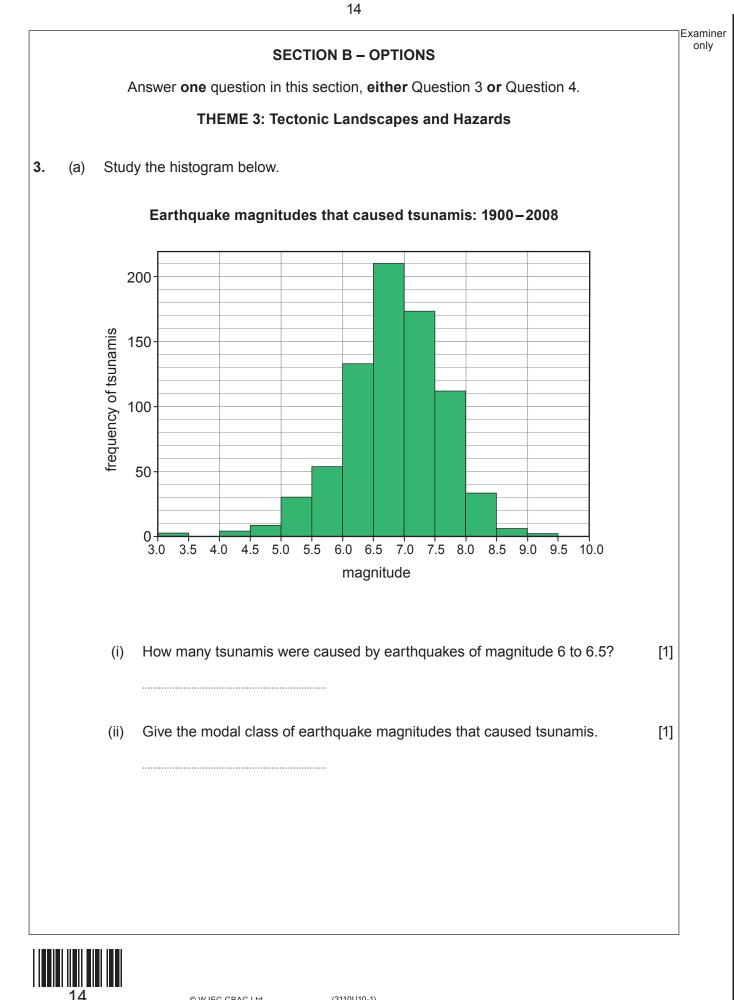
End of Question 2

.....

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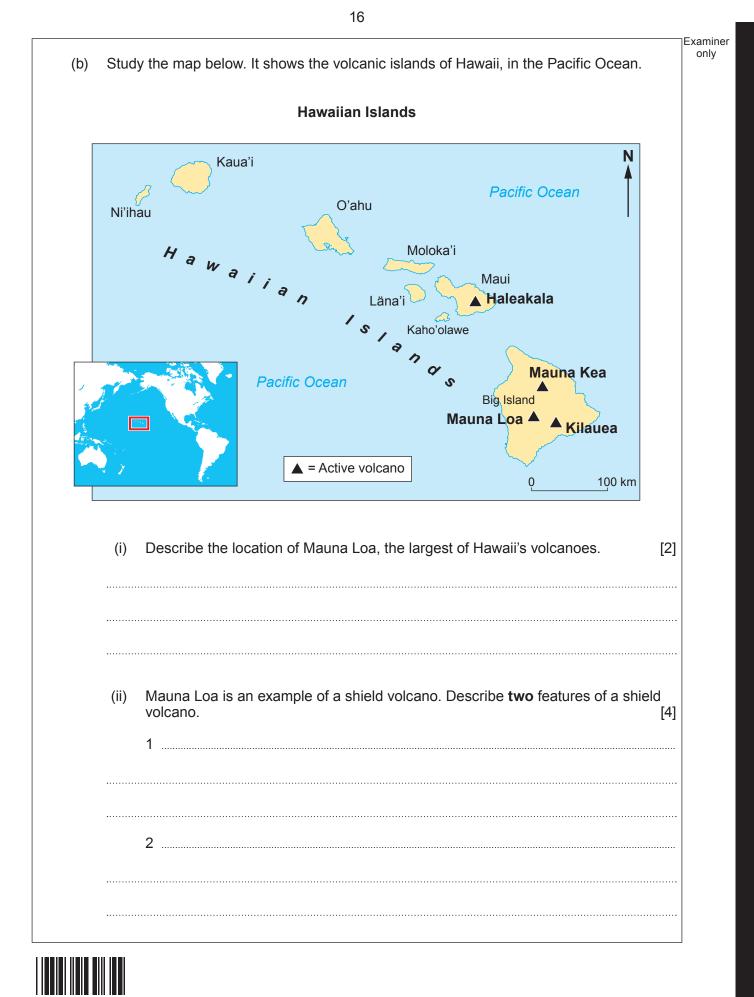
Examiner only



	15	
(iii)	Give two reasons why a histogram was used to present this data rather than a bar chart.	[2]
	2	
(iv)	Explain why fewer tsunamis are caused by low magnitude earthquakes.	[2]



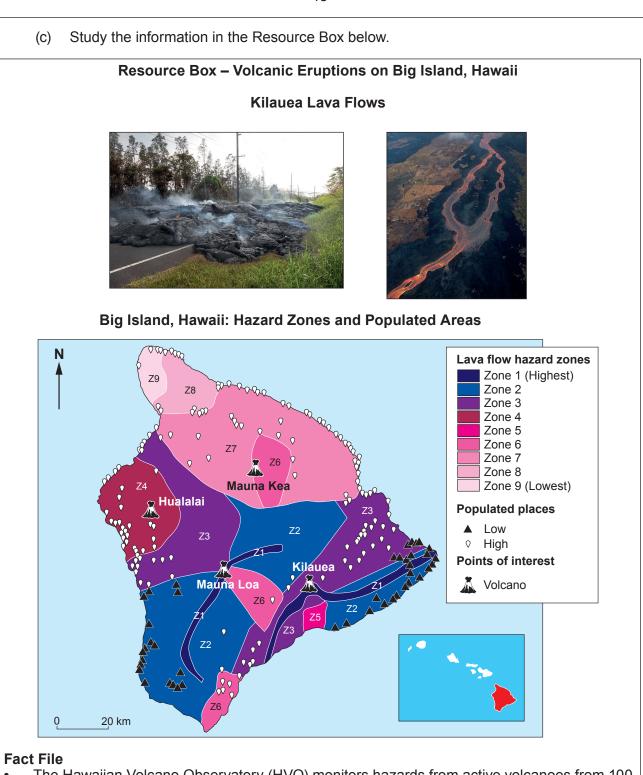
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-			∣Examine
	(iii)	The Hawaiian Islands have been created by a volcanic hot-spot. Explain why hot-spots can create chains of volcanoes. You may use a diagram to help your answer. [4]	only
	••••••		
	•••••		
	••••••		



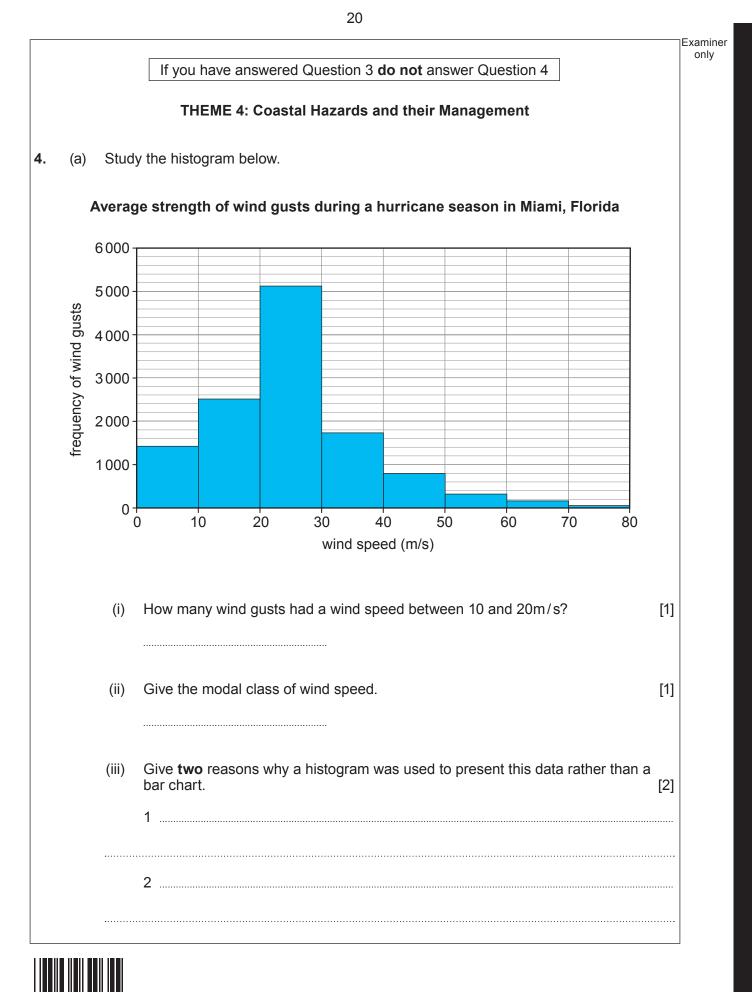


- The Hawaiian Volcano Observatory (HVO) monitors hazards from active volcanoes from 100 field stations with scientific instruments transmitting data 24 hours a day. The data is used to produce hazard maps to advise the population and emergency planners.
- The Kilauea volcano eruption in 2018 destroyed dozens of homes and burned hundreds of hectares of farmland, but the damage was confined to the Big Island. 2,000 people were evacuated in the 2018 eruption but there were no casualties.
- Tourism authorities reported that summer bookings for hotels on Big Island have fallen by almost 50 percent since the Kilauea volcano began spewing lava and toxic gases. Tourism generates US\$166 million per year for all of the Hawaiian Islands.



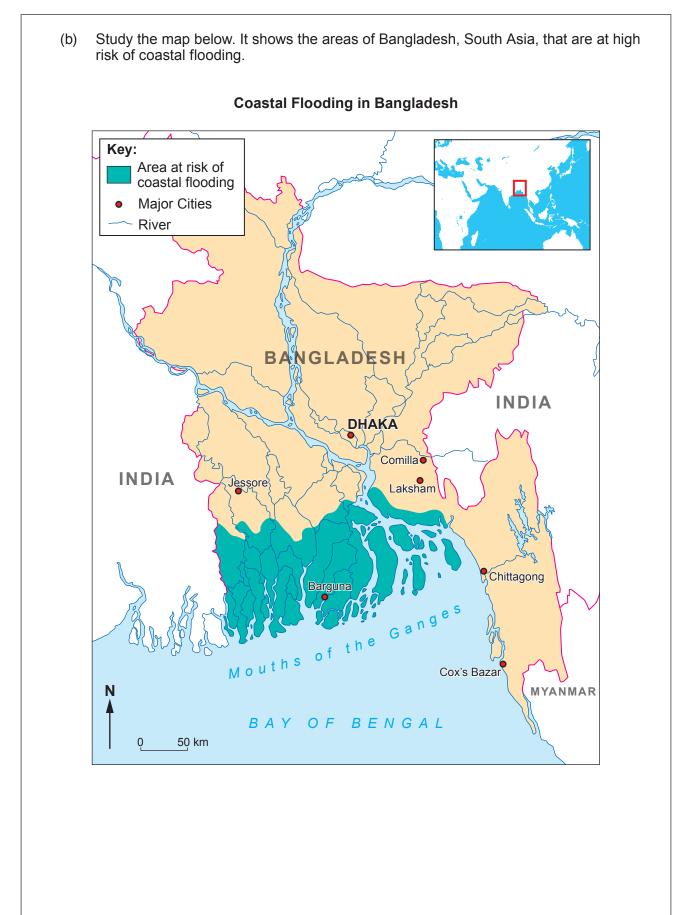
	Volcanic lava flows present the most serious dangers to people and the economy. To what extent do you agree with this statement?	
	Use the Resource Box to support your answer. You may refer to other examples you have studied.	8]
		•••••
		••••
ddit	ional space for question 3 (c) only:	
		••••





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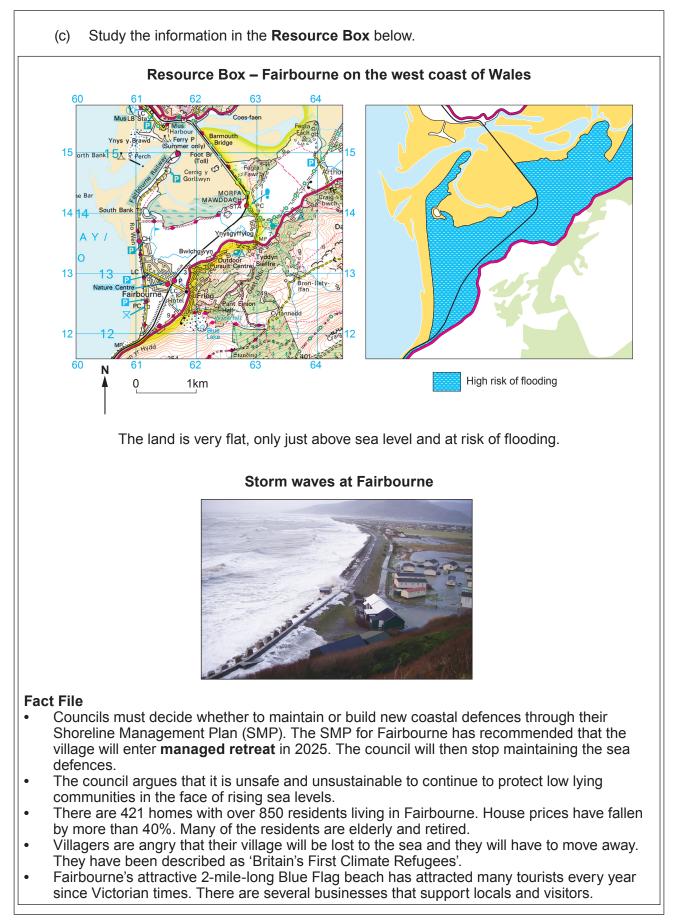
(iv)	Explain why the strength of wind during tropical storms concerns some people who live in coastal communities.	Exan on [2]
······		
······		
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(i)	Describe the areas of Bangladesh at risk from coastal flooding. [2
(ii)	Describe one social and one economic factor that can increase the vulnerability of coastal communities to the impact of flooding. [4 Social
	Economic
(iii)	Explain why climate change is increasing the risk of flooding in coastal areas. [4
······	
·····	







Local councils in the UK should protect all communities from coastal flooding to stop them from disappearing. To what extent do you agree with this statement?	
Use the Resource Box to support your answer. You may refer to other examples you have studied. [8]
	•
	•
	•



Additional space for question 4 (c) only:	Examiner only
End of Question 4	
END OF PAPER	

Question number	Additional page, if required. Write the question number(s) in the left-hand margin.	Examiner only



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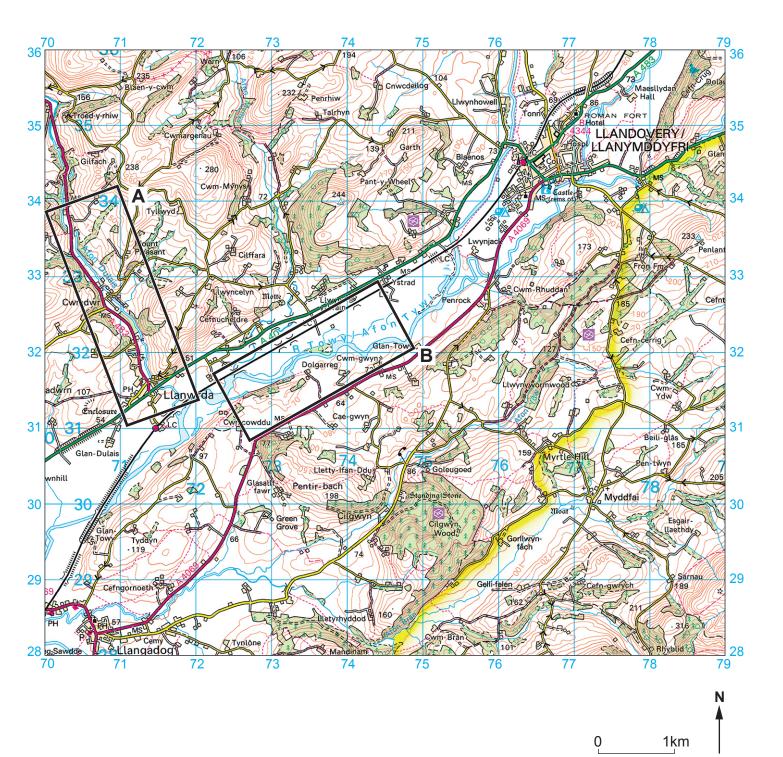
MONDAY, 23 MAY 2022 – MORNING

GEOGRAPHY Unit 1: Changing Physical and Human Landscapes

1 hour 30 minutes

RESOURCE FOLDER

This folder is for use with questions in **Unit 1: Changing Physical and Human Landscapes**. This folder need not be handed in with your answer booklet.



OS Map Extract Sheet 146 Lampeter & Llandovery

andranger series (1.50,000 scale)



Graticule intersection at 5' intervals

list

(with date)

ROCK FEATURES

Cliff -650

Landranger series (1:50 000 scale)
LANDRANGER MAP SYMBOLS

ROADS AND PATHS	Not necessarily rights of way
Service M1 Elevated	Motorway (dual carriageway)
1 Junction number	
Unfenced Dual carriageway	Primary Route
A 470 Footbridge	Main road
	Road under construction
B 4518	Secondary road
A 855 Bridge B 885	Narrow road with passing places
	Road generally more than 4m wide
	Road generally less than 4m wide
	Other road, drive or track
	Path
→> →	Gradient: steeper than 20% (1 in 5)/ 14% to 20% (1 in 7 to 1 in 5)
	Gates / Road tunnel
Ferry P / Ferry V	Ferry (passenger) / Ferry (vehicle)

Track multiple or single

Track under construction

Light rail system, narrow gauge or tramway

Restricted byway (not for use by mechanically propelled vehicles)

European Long Distance Path and selected Recreational Routes

On-road cycle route

Traffic-free cycle route

Cycle Network number; National / Regional

National Trail, Scotland's Great Trails, ••••

Bridges, footbridge

RAILWAYS

**

_ _

Tunnel, cutting

++++++++ Byway open to all traffic

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

PUBLIC RIGHTS OF WAY

OTHER PUBLIC ACCESS

۰ ٠ .

0 0 0

4 8

----- Footpath ----- Bridleway

		Cutting, embankment
Motorway (dual carriageway)	<u>λ λ λ</u>	Electricity transmission I (pylons shown at standa
Primary Route	>>>	Pipe line (arrow indicates direction
Main road		Buildings
Dead address of a feat		Important building (sele
		Bus or coach station
Secondary road	¢	Glass structure
Narrow road with passing places	$^{ ext{(H)}}$	Heliport
Road generally more than 4m wide	± •	Current or former place with tower with spire, minaret or do
Road generally less than 4m wide	+	Place of worship
Other road, drive or track		Triangulation pillar
Path	X	Mast
Gradient: steeper than 20% (1 in 5)/	ž	Wind pump
	Ϋ́Υ	Wind turbine
Gales / Noau lunner	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Windmill with or withou
Ferry (passenger) / Ferry (vehicle)		
	Main road Road under construction Secondary road Narrow road with passing places Road generally more than 4m wide Road generally less than 4m wide Other road, drive or track Path Gradient: steeper than 20% (1 in 5)/ 14% to 20% (1 in 7 to 1 in 5) Gates / Road tunnel	Motorway (dual carriageway) ∧ ∧ A ∧ ∧ Primary 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 Other road, drive or track △ △ Path I I I Gradient: steeper than 20% (1 in 5)/ I I I I4% to 20% (1 in 7 to 1 in 5)/ I I I Id I I I I

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LC

amendments

....

Station, (a) principal

Light rail system station

Viaduct, embankment

Not shown on maps of Scotland

Other route with public access (not normally shown in urban areas)

The exact nature of the rights on

these routes and the existence of any restrictions may be checked

with the local highway authority. Alignments are based on the best

information available. These routes

Siding

Public rights of way shown on this map have been taken from local authority definitive maps and later

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

Rights of way are liable to change and may not be clearly defined on the ground. Please check with the relevant local authority for the latest information. Rights of way are not shown on maps in Scotland.

Level crossing

3

LAND FEATURES

Λ Λ	Electricity transmission line (pylons shown at standard spacing)		Landfill site or slag/spoil heap
>>	Pipe line (arrow indicates direction of flow)	* * *	Coniferous wood
	Buildings	200 Q	Non-coniferous wood
	Important building (selected)	* *0	Mixed wood
-	Bus or coach station		Quiliand
Ø	Glass structure		Orchard
\oplus	Heliport		Park or ornamental ground
ii i	Current or former place of worship; with tower with spire, minaret or dome		Access land (symbols indicate owner or agency - see below)
+	Place of worship	<i>द</i> ‡	Forestry Commission
Δ	Triangulation pillar	\otimes	Natural Resources Wales
T	Mast		National Trust; always open,
Ĭ	Wind pump	* *	limited access - observe local signs
Ϋ́	Wind turbine	8	National Trust for Scotland;
Ϋ́	Windmill with or without sails		always open, limited access - observe local signs

+

ABBRE	IATIONS		See website for ful	
Br	Bridge	MS	Milestone	
Cemy	Cemetry	Mus	Museum	
CG	Cattle grid	Р	Post office	
CH	Clubhouse	PC	Public convenience (in rural areas)	
Coll	College	PH	Public house	
Fm	Farm	Sta	Station	
Ho	House	Sch	School	
Hospl	Hospital	ТН	Town Hall, Guildhall or equivalent	
MP	Milepost	Univ	University	

ARCHAEOLOGICAL AND HISTORICAL INFORMATION						
+	Site of antiquity	VILLA	Roman	≫1066	Site of battle	

т	Site of antiquity	VILLA	Ruman
☆ יייי	Visible earthwork	Castle	Non-Roman

HEIGHTS	
50	Contours are at 10 metres vertical interval
14 4	Heights are to the nearest metre above

50	metres vertical interval	Cliff 650 ment
· 14 4	Heights are to the nearest metre above mean sea level	Outcrop 60
Where two heights are shown, the first is the height of the natural ground in the location of the triangulation pillar, and the second (in brackets) to a separate point which is the natural summit.		Cliff 30

TOURIST INFORMATION

×	Viewpoint 180° 👗 💭	Camp site / Caravan site
*	Viewpoint 360°	Camping and caravan site
V	Visitor centre	Selected places of tourist interest
:	Walks / trails	Information centre, all year / seasonal
1	Nature reserve	Parking
X	Picnic site	Park & Ride, all year / seasonal
	Youth hostel	Phone, public / emergency / roadside assistance
	Golf course or links	Recreation / leisure / sports centre
::	Garden / arboretum	World Heritage site or area

	Firing and Test Ra Danger! Observe	anges in the area. warning notices.	are not shown on maps of Scotlan		aps of Scotland
BOUNDARIES	8				
+ - + - +	National		or London Bor	y Authority, Metropo ough	litan District
WATER FEAT	District		National Park		
Lake	Towpath Loc	Slopes k Ford tidal limit Dunes	Flat rock	Low v	vater mark vater mark se) <u>A</u> Beacon Shingle

constant (dry)