Surname	Centre Number	Candidate Number
First name(s)		0



#### **GCSE**



C111U10-1

#### **WEDNESDAY, 11 NOVEMBER 2020 - MORNING**

## **GEOGRAPHY A - Component 1**

#### **Changing Physical and Human Landscapes**

1 hour 30 minutes

For Examiner's use only						
Question	Maximum Mark	Mark Awarded				
1	34					
2	34					
SPaG	4					
either 3	16					
or 4	16					
Total	88					

#### **ADDITIONAL MATERIALS**

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

#### **INSTRUCTIONS TO CANDIDATES**

Answer **both** questions in Section A.

Answer one question from Section B.

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

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

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 spell, punctuate and use grammar and specialist terms accurately will be assessed in your answer to question 2(e).



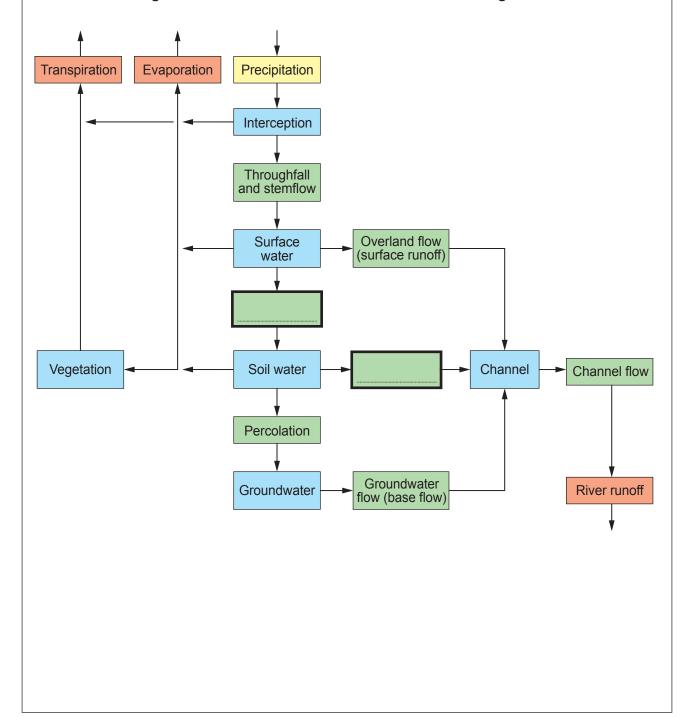
#### **SECTION A: CORE THEMES**

Answer all of the questions in this section.

#### **CORE THEME 1: Landscapes and Physical Processes**

1. (a) Study Diagram 1.1 below.

Diagram 1.1 – Flows and stores of water in UK drainage basins





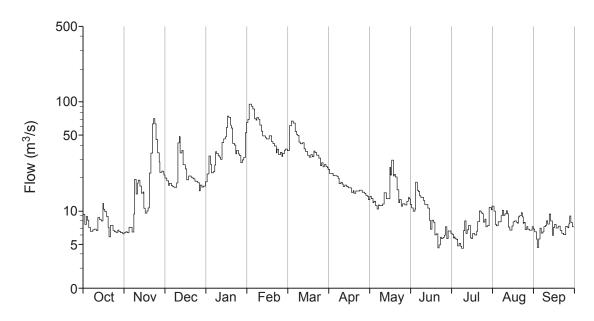
(i)	Name <b>one</b> store of water shown on the diagram.	[1]
(ii)	Complete the diagram opposite by inserting the <b>two</b> correct processes from the below.	e lis [2]
	Infiltration Condensation Throughflow	
(iii)	Explain the inter-relationship between interception and overland flow.	[4]
		•••••
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Turn over.

(b) Study Graph 1.2 below.

Graph 1.2 - The annual discharge of the River Thames at Reading 2016 - 2017



(i) Complete the sentence below.

A line graph that shows the discharge of a river over time is known as a

[1]

(ii) Use information from **Graph 1.2** to circle the correct answer in the sentences below. [3]

Between March and September the discharge **increased** / **fluctuated** / **stayed the same**.

The peak discharge was in November / February / May.

The annual discharge range was **75** / **85** / **95** m<sup>3</sup>/second.

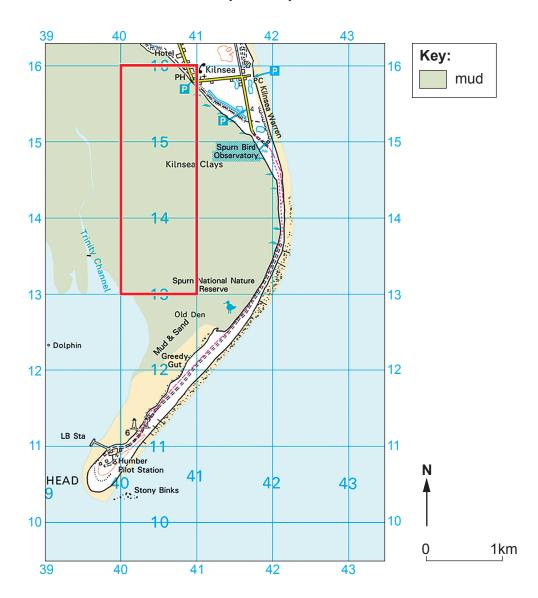


(iii)	Describe <b>two</b> ways in which weather increases discharge in UK rivers.	[4]
•••••		
•••••		
************		· · · · · · · · · · · · · · · · · · ·
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(c) Study the **OS Map** below. It shows Spurn Head spit on the east coast of England. (A key for the map is on page 36).

OS Map 1.3 - Spurn Head



(i)	Estimate the area of mud in the squares outlined in red.	[1]
-----	--	-----

..... km²



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(ii)	Use the OS map to describe the shape of the spit.	3]
•••••		
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(iii)	Give <b>one</b> piece of map evidence which shows that longshore drift occurs along the east side of this spit.	ie 1]
(iv)	Coastal processes interact and cause spits to develop. Explain why.	3]
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#### (d) Study the information in the **Resource Box** below.

#### Resource Box - Information about the Isle of Skye



Skye is the largest island in the Inner Hebrides. The island is linked to the mainland by a road bridge. Skye has some of the most dramatic scenery in the country.

A large number of tourists at Fairy Pools in Skye



#### Fact File - Tourism

- Skye has recently seen a large increase in tourist numbers. More than 24 000 people visited the tourist centre in Portree in 2017.
- Cruise ships dock in Portree Bay each summer.
- Islanders have complained that their narrow, single-track roads are being blocked with camper vans, tour buses and cars.
- Some people think that there should be a long-term tourism plan to tackle the issue.
- Some people think that tourists should pay a tax to the island.



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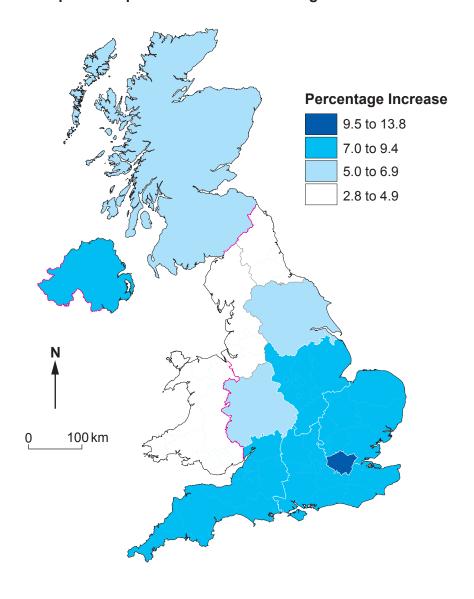


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#### **CORE THEME 2: Rural-Urban Links**

2. (a) Study Map 2.1 below.

Map 2.1 – Population increase in the regions of the UK



(1)	Name the mapping technique shown above.	.1]
		••••

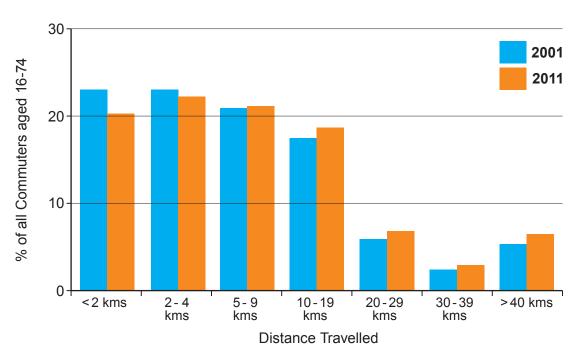


(ii)	Describe how the map could be improved so that it is easier to interpret.	[2]
(iii)	Give <b>one</b> reason why the population of the UK is increasing.	[2]
<u></u>		
(iv)	The UK Government wants to see an extra 240 000 new homes built each y Explain why this creates challenges for greenfield sites.	ear. [4]
······		





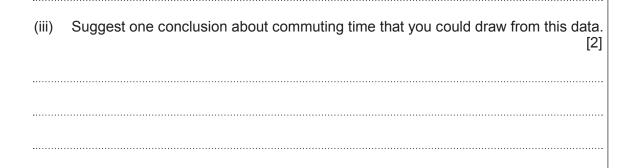




(i)	Give the modal class for the distance travelled by commuters in 2011.	[1]

(11)	distance t		ПЗПІР	Detween	ıııc	percente	age (	76) OI	all	Commuter	[2]

•••••	 	 





(i)	What is counter-urbanisation? Tick (✓) one definition below	
	Definition	Tick (✓)
	The movement of people from rural areas to urban areas.	
	The movement of people from home to work.	
	The movement of people from large cities to smaller towns and rural areas.	
(ii)	Give <b>three</b> transport issues that arise from counter-urbanis	sation.
	1.	
	2.	
	3.	

(d)	(i)	Describe <b>one</b> social and <b>one</b> cultural pattern within a HIC global city you ha studied.
		Name of HIC global city
	******	
	********	
	******	
	•••••	
	•••••	
	(ii)	Explain why reducing poverty is a challenge in HIC cities.
	********	



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Turn over.

(e) Study the information in the **Resource Box** below.

#### **Resource Box – Shopping in Chester**

Chester has introduced some strategies to improve its high street in response to competition from out of town retailing and internet shopping.

Three strategies are shown in the photographs below:

#### Park and Ride



**Pedestrianised Street in the City Centre** 



**Indoor Shopping Centre on the High Street** 





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Evaluate strategies such as these to improve the high street of UK towns and cities.

Examiner only

[8]

Your a will be	ability to spe assessed in	ell, punctuat n your answ	e and use er to this qu	grammar a uestion.	and special	ist termino	logy accui	ratel <sub>.</sub> [4
			•••••	•••••	•••••	•••••		•••••



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#### **TURN OVER FOR**

**SECTION B: OPTIONS** 

Answer one question in this section.

Chose either Question 3 (Theme 3) or Question 4 (Theme 4).



#### **SECTION B: OPTIONS**

Answer one question in this section.

Chose either Question 3 (Theme 3) or Question 4 (Theme 4).

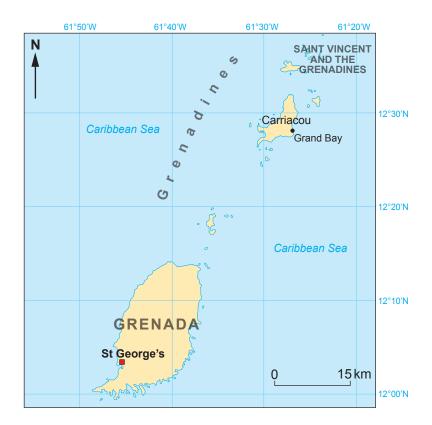
#### **THEME 3: Tectonic Landscapes and Hazards**

3.	(a)	Give <b>two</b> ways in which the risks associated with earthquakes may be reduced.	[2]
		1	
		2	
		Explain why volcanic activity occurs at hotspots.	[4]
	•••••		
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(c) Study Map 3.1 below.

Map 3.1 – The Location of Grenada



(i) Use information from the map to circle the correct answer in the sentences below.

The distance from St George's (Grenada) to Grand Bay (Carriacou) is **36** / **56** / **76** kms.

The direction from St George's to Grand Bay is **north east / south west / north west**.



(ii) Study the information in the **Resource Box** below.

#### Resource Box - Information about Grenada and the Lesser Antilles

#### Grenada

- GDP per capita US\$ 8960.
- The economy in Grenada is reliant on tourism.
- Grenada also exports crops such as nutmeg.
- Japan, a HIC that is affected by tectonic activity has a GDP per capita US\$ 48600.
- Grenada is part of a volcanic chain of islands on the eastern side of the Caribbean Plate.
- The volcanic arc is part of a subduction zone.
- The arc includes 17 active volcanoes including:
  - Soufriere Hills (Montserrat)
  - Mount Pelée (Martinique)
  - Kick 'em Jenny (near Grenada)

#### Soufriere Hills, Montserrat



# Kick 'em Jenny is an active underwater volcano, located near Grenada. It rises 1,300 m above the sea floor. In March 2018, increased seismic activity led to a 5 km exclusion zone around the volcano.

Bubbles of volcanic gases can lower water density and can cause ships to sink.

#### An underwater volcano erupting



#### Location of Kick 'em Jenny volcano





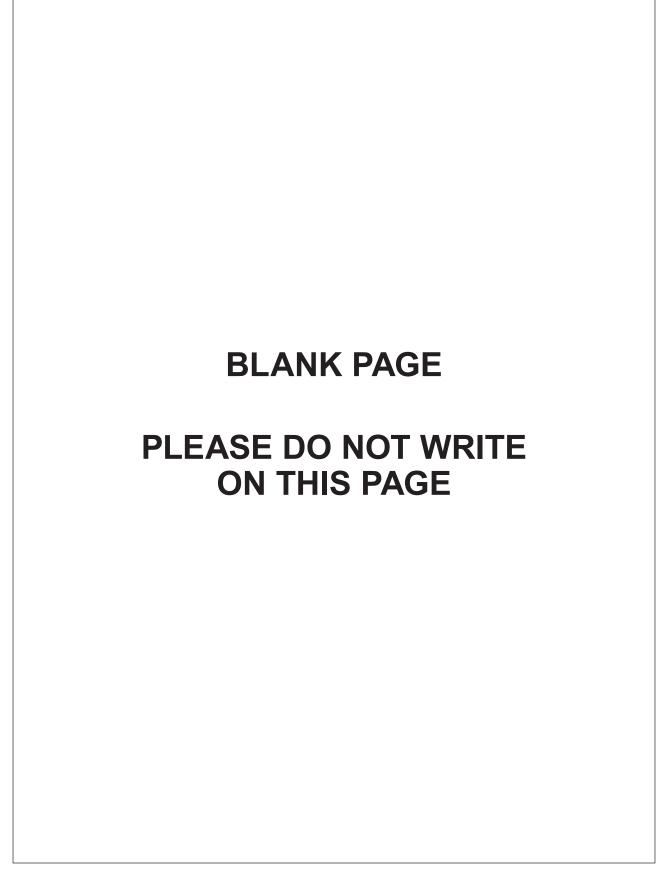
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Do you agree that poorer countries such as Grenada face a greater risk from the impacts of volcanic activity than other countries in tectonic zones? Justify your reasons. [8]						stify your reas	ons. [8
			······				
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End of Question 3	
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#### **THEME 4: Coastal Hazards and their Management**

		If you have answered question 3, do not answer question 4.	
4.	(a)	Give <b>two</b> soft engineering strategies used to reduce the risk of coastal erosion and flooding.	nd 2]
		1	
		2.	
	(b)	Explain why cost-benefit analysis is used in coastal management. [4	4]
			···•
	•••••		<b>.</b>
			- !



(c) Study Map 4.1 below.

Map 4.1 - The Location of The Bahamas



(i) Use information from the map to circle the correct answer in the sentences below. [2]

The distance from Nassau to Clarence Town is 205 / 305 / 405 kms.

The direction from Nassau to Clarence Town is **south east** / **north west** / **north east**.



(ii) Study the information in the **Resource Box** below.

#### **Resource Box – Information about The Bahamas**

#### The Bahamas

- The Bahamas is a Small Island State and is a member of the Caribbean Community.
- Bahamas GDP per capita US\$ 26500.
- UK GDP per capita US\$ 42500;
- The Bahamas has a population of over 400 000 people.
- Tourism accounts for 60% of the nation's wealth.

#### A beach resort near Nassau, Bahamas



#### **Rising Sea Levels**

- The Bahamas are highly vulnerable as 80% of the land lies less than 1 metre above sea level.
- Sea level rise could threaten food security, water supplies and the tourist industry.
- It is recommended that the Caribbean Small Island States should erect more than 200 miles of levees and sea walls, at a cost of US\$6 billion.

#### Sea Wall near Nassau, Bahamas



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levels than other countries	Island States face a greater risk from the impacts of rising seas with a coastline? Justify your reasons. [8



Additional spa	ce for question	<b>4</b> (c)(ii) only:		E
		End of Quest	tion 4	
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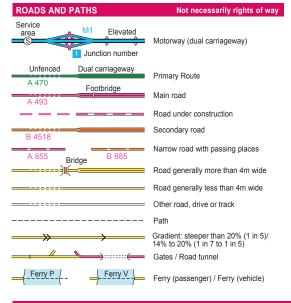




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#### Landranger series (1:50 000 scale)

#### **LANDRANGER MAP SYMBOLS**





#### LAND FEATURES Graticule intersection at 5' intervals Electricity transmission line Landfill site or slag/spoil heap (pylons shown at standard spacing) > - -> - -> Coniferous wood ruin (arrow indicates direction of flow) Non-coniferous wood Buildings 6 Important building (selected) Mixed wood **~** Bus or coach station Orchard \$ Glass structure $\oplus$ Park or ornamental ground Current or former place of worship: Access land (symbols indicate owner or agency - see below) with spire, minaret or dome 4 Place of worship Forestry Commission $\otimes$ Δ Triangulation pillar Natural Resources Wales I Mast National Trust: always open. \* \* limited access - observe local signs Wind pump Ĭ ǐ 十 Wind turbine National Trust for Scotland; Š Š

#### RAILWAYS Track multiple or single Station, (a) principal Track under construction Siding Light rail system, narrow gauge or tramway Light rail system station LC Bridges, footbridge Level crossing Tunnel, cutting Viaduct, embankment

#### **PUBLIC RIGHTS OF WAY**

#### Not shown on maps of Scotland

Footpath Restricted byway (not for use by mechanically propelled vehicles) +-+-+-+ 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 shown on this map have been taken from local authority definitive maps and later amendments.

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 in Scotland.

Windmill with or without sails

Dridge

MP Milepost

ABBREVIATIONS

ы	Bridge	IVIO	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	TH	Town Hall, Guildhall or equivalent

Milestone

MC

#### ARCHAEOLOGICAL AND HISTORICAL INFORMATION

Site of battle + Site of antiquity VILLA Roman ~ 1066 \* " Visible earthwork Non-Roman

Univ University

#### HEIGHTS

Contours are at 10 metres vertical interval

Heights are to the mean sea leve

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.

#### **ROCK FEATURES**

always open, limited access -

observe local signs



### OTHER PUBLIC ACCESS

National Trail, Scotland's Great Trails, • • • • • European Long Distance Path and selected Recreational Routes

On-road cycle route 0 0 Traffic-free cycle route

Cycle Network number; National / Regional Danger Area

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

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 are not shown on maps of Scotland

#### **BOUNDARIES**

4 8

County, Unitary Authority, Metropolitan District or London Borough + - + - + National → → → → District National Park

#### WATER FEATURES



#### **TOURIST INFORMATION**

N/	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
$\boxtimes$	Picnic site P&R	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



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