Surname	Centre Number	Candidate Number
Other Names		0

GCSE



C112U10-1



GEOGRAPHY B – Component 1 Investigating Geographical Issues

TUESDAY, 21 MAY 2019 - AFTERNOON

1 hour 45 minutes

For Examiner's use only				
Maximum Mark	Mark Awarded			
32				
4				
32				
32				
100				
	aminer's use Maximum Mark 32 4 32 32 32 100			

ADDITIONAL MATERIALS

Resource Folder.

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

INSTRUCTIONS TO CANDIDATES

Answer all of the questions in this examination paper.

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

If additional space is required 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 or part-question.

You are reminded that assessment will take into account your ability to spell, punctuate and use grammar and specialist terminology accurately in your answer to question 1(d).



LDE*(S19-C112U10-1)

Theme 1: Changing Places – Changing Economies

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Answer all questions.

- 1. Most towns and cities in the UK have distinctive zones. One of these is the zone of deprivation.
 - (a) (i) **Tick (/) three** features in the list below which are indicators of deprivation. [3]

Feature	Tick (√)
Low crime rate	
High level of car ownership	
High level of overcrowding	
Low level of employment	
High level of income	
Low level of good health	



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(b) (i) **Tick (***J***)** which of the following statements best describes the land use of the CBD (Central Business District).

Examiner

Land Use	Tick (√)
Mainly small factories and warehouses	
Mainly shops, offices and restaurants	
Mainly retail parks and leisure centres	
Mainly new housing estates	

(ii) Many cities have high volumes of traffic. Study **Figure 1.2** below.

Figure 1.2 The flow of traffic into and out of a CBD between 9.00am and 9.05am.









	(i)	Give one reason why the population of cities in the LIK is increasing	E:	xaminer only
(0)	(1)	Give one reason why the population of cities in the OK is increasing.	[2]	
	•••••			
	·····			
	•••••			
	(ii)	Explain why improving transport systems can help to make cities more		
	(11)	sustainable.	[6]	
	·····			
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(d) Study the information below. They show some features of urban and rural areas of the UK.



Figure 1.3 Changes in house prices 2007-2017

Figure 1.4 Urban and rural comparisons

Feature	Urban	Rural
% of total population	82%	18%
% of people not in work/retired	19%	24%
% of people with access to a doctor's surgery within 4km of their home.	100%	80%
% of people with access to superfast broadband connection	86%	30%

Figure 1.5 Changes to rural services



Volunteers run some rural services such as buses, post offices, libraries and shops to prevent them closing.



 What conclusions can you reach about the social and economic issues facing rural areas of the	Examiner only
UK? [8]	
Your ability to spell, punctuate and use grammar and specialist terminology accurately will be assessed in your answer to this question. [4]	
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	Only
End of Question 1	
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				Answer all questions		
			,	Answer an questions.		
•	(a)	Coastal areas are affected by many different physical processes. Complete the sentence below by adding the correct words from the box.				ete the sentences [4]
			hydraulic action headlands deposition	joints attrition cliffs	weathering saltation abrasion	
		Some	e rocks have vertical lin	es of weakness called		
		The b	preaking down of rock b	by the wind and rain or	by plant roots	
		is call	led	The force of	waves compressing	air into weakness
		in the	cliffs is called	T	he process where roo	cks are picked up
		by the	e waves and thrown ag	ainst the cliffs is called	l	
	(b)	Study (i)	whe map in the separat	te Resource Folder. Th along the Tennyson	e map shows part of Trail footpath from	the Isle of Wight. the Coastguard
	(b)	Study (i)	whe map in the separate What is the distance Cottages at 301848 to kms.	te Resource Folder. Th along the Tennyson the viewpoint at 3258	e map shows part of Trail footpath from 53?	the Isle of Wight. the Coastguard [1]
	(b)	Study (i)	the map in the separate What is the distance Cottages at 301848 to kms.	te Resource Folder. Th along the Tennyson the viewpoint at 3258	ie map shows part of Trail footpath from 53?	the Isle of Wight. the Coastguard [1]
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(ii) **Figure 2.1** below shows part of the area on the **map** in the **Resource Folder**. It was taken in grid square 3085.



In which direction was the photograph taken? **Tick** (✓) the correct box below.

Direction	Tick (√)
North-west	
North-east	
South-west	
South-east	

(iii) Name the features marked **A**, **B** and **C** on **Figure 2.1**, using the map in the **Resource Folder**. [3]

Feature	Letter
White Cliffs	
Scratchell's Bay	
The Needles	
Alum Bay	
West High Down	
Totland Bay	



[1]

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Examiner only The Needles are an example of the coastal landform 'stacks'. Describe how a stack is formed. You may draw diagrams in the space below to support your answer. [4] (iv) _____

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(c) **Figure 2.2** below shows the amount of potential erosion around Totland Bay in the Isle of Wight. (*Potential erosion is the amount of erosion that could occur with no management.*)

10 year time periods	Potential erosion in metres		
2015-2025	19.41		
2025-2035	13.24		
2035-2045	14.11		
2045-2055	15.23		
2055-2065	16.10		

Figure 2.2 Potential erosion rates around Totland Bay

- (i) The median value for potential erosion is 15.23 m. Give one limitation of using the median as a measure of potential erosion. [1]
- (ii) Calculate the mean of potential erosion rate between 2015 and 2065. Show your working below. [2]

Mean = metres



) Explain one way in which human activity can increase coastal erosion. [2]
) To reduce erosion rates some planners support the 'hold the line' method of coastal management. Explain why there are conflicting views on this method of coastal management. [6]

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(d) Study Figure 2.3 below.

Figure 2.3 Some areas of the world are at significant risk from rising sea levels and increased frequency of storms. 23% of the UK's population live A rise of 1 metre would affect 70% of the within 10 kms of the coast. population of Bangladesh. The country also experiences frequent storms. 5 NAWYORKCOST M DAILYNEWS IRMA'S Increase in severe hurricanes 25 has devastating effects on the USA and Caribbean islands. Key: • = Major cities at risk from rising sea level 80% of the islands of Maldives are less than 1 metre above sea level.



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	End of Question 2	
		•••••
		[0]
ł	low far do you agree with this statement?	[8]







(b) For a named ecosystem you have studied (other than hot semi-arid grassland) describe how the ecosystem has been managed. Name of ecosystem [4]		(iv) Explain why vegetation can survive in the climate of hot semi-arid grassland	ds. [4]
(b) For a named ecosystem you have studied (other than hot semi-arid grassland) describe how the ecosystem has been managed. Name of ecosystem			
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Name of ecosystem [4]	(b)	For a named ecosystem you have studied (other than hot semi-arid grassland) d how the ecosystem has been managed.	escribe
		Name of ecosystem	[4]





(iii) Explain why human activity can increase the process of desertification.	[4]
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(*d*) Study the photographs and map below, which show some strategies to reduce desertification.



Figure 3.3 Make land use more sustainable.



Figure 3.4 Use alternative modern farming techniques.



Figure 3.5 Encourage the growth of new urban settlements away from desert areas.



Figure 3.6 Support projects such as the Great Green Wall in Africa where 11 countries have planted lines of trees.



Evaluate how desertificatior	v successful 1.	strategies	like these	could	be in	reducing	the	spread	of [8]
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		End of	Question	3					
		END	OF PAPER						

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