Surname	Centre Number	Candidate Number
First name(s)		2

GCE AS

B110U20-1

Z22-B110U20-1

FRIDAY, 27 MAY 2022 – MORNING

GEOGRAPHY – AS component 2
CHANGING PLACES

1 hour

For Examiner's use only		
Question	**Maximum Mark**	**Mark Awarded**
1.	**16**	
2.	**24**	
3. or 4. or 5.	**20**	
Total	**60**	

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ADDITIONAL MATERIALS

A calculator.

INSTRUCTIONS TO CANDIDATES

Answer **all** questions in Section A. In Section B, answer **either** question 3 **or** 4 **or** 5.

Use black ink or black ball-point pen. Do not use gel pen or correction fluid. You may use a pencil for graphs and diagrams only.

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 you run out of space, use the additional page(s) at the end of the booklet, taking care to number the question(s) correctly.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [ ] at the end of each question or part-question; you are advised to divide your time accordingly.

This paper requires that you make as full use as possible of appropriate examples and reference to data to support your answers. Sketch maps and diagrams should be included where relevant.

A plain page is available at the end of each section for you to add any relevant sketch maps and diagrams you may wish to include. The question number(s) should be clearly shown.

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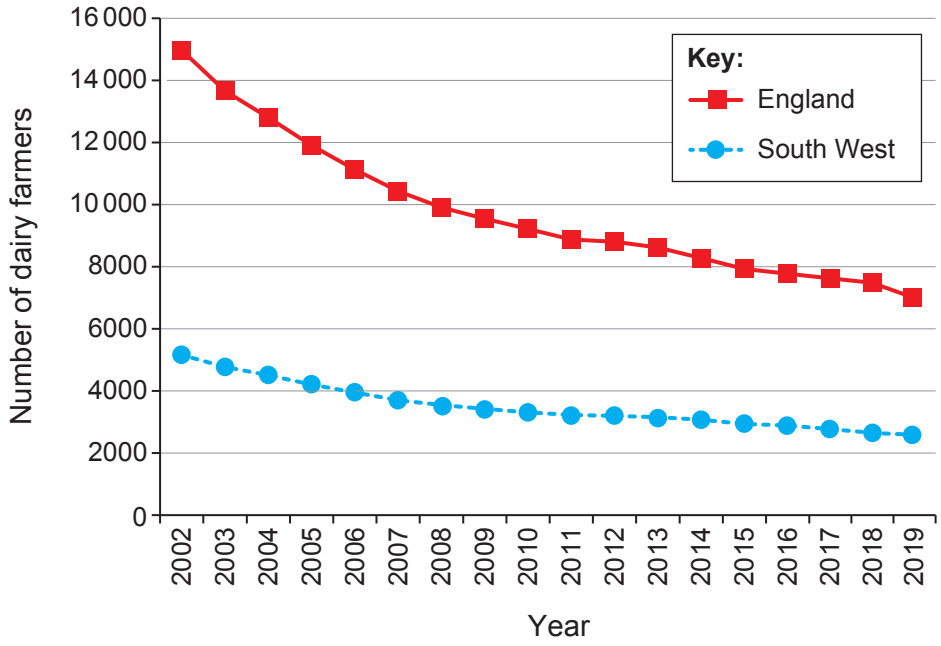
Section A: Changing Places

Answer **all** questions.

Make the fullest possible use of examples and data to support your answers.

Figure 1: The number of dairy farmers in South West England and England as a whole, 2002–2019



Source: https://www.nfuonline.com/assets/67942

1. (a) (i) Compare the trends shown in **Figure 1**. [3]

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(ii) Suggest **one** way in which the decline in primary employment in rural areas has affected local people. [3]

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Turn over.

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(b) Examine the impacts of the continuing decline of some urban places. [10]

Additional space for question **1**(b):

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Figure 2: Images of Hartlepool Marina before and after proposed regeneration

Figure 2a: Hartlepool Marina before proposed regeneration

Source: https://www.hartlepoolmail.co.uk

Figure 2b: Artist's impression of Hartlepool Marina after proposed regeneration

Source: https://www.hartlepoolmail.co.uk

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2. (a) (i) Use **Figure 2** to identify ways in which Hartlepool Council are planning to regenerate Hartlepool Marina. [4]

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Figure 3: Number of day visitors to Hartlepool

	2016	2017
Day visitor numbers	3.42 million	3.64 million

Source: https://www.hartlepool.gov.uk

(ii) Calculate the percentage change in day visitor numbers between 2016 and 2017. Show your working clearly and give your answer to **one** decimal place. [3]

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(b) Outline **one** ongoing challenge in places where regeneration / rebranding is absent **or** has failed **or** causes overheating. [4]

(c) Discuss the relative significance of the cultural characteristics of your 'home' and 'contrasting' places. [13]

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Additional space for question **2**(c): .....

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Section B: Fieldwork Investigation in Physical and Human Geography

Answer **either** question 3 (Changing Places) **or** 4 (Coastal Landscapes) **or** 5 (Glaciated Landscapes).

3. Changing Places

For their fieldwork enquiry, a group of AS level Geography students chose to investigate the impact of gentrification in Redcliffe, an inner-city area in Bristol **(Figure 4)**.

Figure 4: Gentrification in Redcliffe, Bristol

(a) (i) Suggest **one** geographical research question relating to gentrification. [1]

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(ii) Explain how investigating this question could further students' knowledge and understanding of gentrification. [4]

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Examiner only

(b) (i) Identify **two** potential risk factors that could impact on an investigation into the gentrification of an inner-city area. [2]

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(ii) For **one** of the risks identified in **3**(b)(i) above, suggest how it could be reduced. [2]

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(c) (i) Outline **one** example of primary data that the AS level students could use to investigate the impact of gentrification. [2]

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(ii) Justify your choice of the example of primary data outlined in **3**(c)(i). [3]

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Examiner only

Figure 5 is a summary of some secondary data the students obtained on house prices in Redcliffe.

Figure 5: House prices of a sample of two-bedroom properties in Redcliffe, Bristol, 2010 and 2020

Prices of two-bedroom properties for sale in 2010 (£000)	Prices of two-bedroom properties for sale in 2020 (£000)
154	465
135	386
197	440
170	405
128	325
185	250
180	376
125	425
150	180
167	265
200	428
Median = 167	
IQR = 50 000	

(d) (i) Identify the median house price value for 2020. [1]

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(ii) Calculate the interquartile range (IQR) for the house prices data for 2020. Show your working. [3]

Examiner only

(iii) Suggest what the difference in the interquartile ranges for 2010 and 2020 indicates about property price changes in Redcliffe. [2]

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Examiner only

4. Coastal Landscapes

For their fieldwork enquiry, a group of AS level Geography students chose to investigate the topic of wave characteristics at Whitby, North Yorkshire **(Figure 6)**.

Figure 6: Beach at Whitby, North Yorkshire

(a) (i) Suggest **one** geographical research question relating to wave characteristics. [1]

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(ii) Explain how investigating this question could further students' knowledge and understanding of wave characteristics. [4]

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(b) (i) Identify **two** potential risk factors that could impact on an investigation into wave characteristics. [2]

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(ii) For **one** of the risks identified in **4**(b)(i) above, suggest how it could be reduced. [2]

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(c) (i) Outline **one** example of primary data that the AS level students could use to investigate wave characteristics. [2]

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(ii) Justify your choice of the example of primary data outlined in **4**(c)(i). [3]

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Figure 7 is a summary of some secondary data the students obtained on wave frequencies.

Figure 7: Wave frequencies on a beach in July and December

Waves per minute recorded in July	Waves per minute recorded in December
7	13
8	16
7	15
9	17
6	14
8	19
7	18
10	21
8	15
6	15
5	23
Median = 7	
IQR = 2	

(d) (i) Identify the median wave frequency value for December. [1]

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(ii) Calculate the interquartile range (IQR) for the wave frequency data for December. Show your working. [3]

Examiner only

(iii) Suggest what the difference in the interquartile ranges for July and December indicates about wave frequencies on this beach. [2]

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5. Glaciated Landscapes

For their fieldwork enquiry, a group of AS level Geography students chose to investigate the characteristics of glacial deposits at Levers Water Tarn, Cumbria **(Figure 8)**.

Figure 8: Glacial deposits at Levers Water Tarn, Cumbria

(a) (i) Suggest **one** geographical research question relating to the characteristics of glacial deposits. [1]

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(ii) Explain how investigating this question could further students' knowledge and understanding of the characteristics of glacial deposits. [4]

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(b) (i) Identify **two** potential risk factors that could impact on an investigation into the characteristics of glacial deposits. [2]

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(ii) For **one** of the risks identified in **5**(b)(i) above, suggest how it could be reduced. [2]

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(c) (i) Outline **one** example of primary data that the AS level students could use to investigate the characteristics of glacial deposits. [2]

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(ii) Justify your choice of the example of primary data outlined in **5**(c)(i). [3]

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Examiner only

Figure 9 is a summary of some secondary data the students obtained on sediment sizes in glacial deposits.

Figure 9: Sediment sizes (diameter) in a sample taken from a terminal moraine and an esker

Sediment sizes of material collected from a terminal moraine (mm)	Sediment sizes of material collected from an esker (mm)
7	8
26	6
43	5
121	11
111	15
8	9
112	5
88	7
64	4
58	13
47	8
Median = 58	
IQR = 85	

(d) (i) Identify the median sediment size for the sample taken from the esker. [1]

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(ii) Calculate the interquartile range (IQR) for the sediment size data taken from the esker. Show your working. [3]

Examiner only

(iii) Suggest what the difference in the interquartile ranges for the samples taken from the moraine and esker indicates about sediment sizes in these glacial deposits. [2]

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