Surname	Centre Number	Candidate Number
Other Names		2

## GCE AS

B110U20-1

wjec



TUESDAY, 21 MAY 2019 – MORNING

## GEOGRAPHY – AS component 2 CHANGING PLACES

1 hour 15 minutes

	For Ex	For Examiner's use only						
	Question	Maximum Mark	Mark Awarded					
	1.	20						
ADDITIONAL MATERIALS	2.	20						
a Resource Folder for use with question 3	3.	20						
<ul> <li>a calculator.</li> </ul>	4.	10						
	5.	10						
	Total	80						

## INSTRUCTIONS TO CANDIDATES

Answer all questions.

Use black ink or black ball-point pen.

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 further space is required you should use the continuation pages 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 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.

B110U201 01

### **Section A – Changing Places**

Answer all questions.

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

Figure 1: Locations in the UK with at least 7,000 quaternary jobs, 2016



Source: http://www.bbc.co.uk

B110U201 03

Examiner only

[3] (ii) Explain why government support is an important influence on the distribution of quaternary jobs shown in Figure 1. [4] \_\_\_\_\_ Outline one social change experienced in central urban places undergoing re-(b) urbanisation. [3] .....

## Turn over.

1.

(a)

Examiner only Examine the factors that have shaped the characteristics of your home place. (C) [10] ..... ..... ..... ..... ..... ..... ..... \_\_\_\_\_ Additional space for question **1**(*c*):

# **BLANK PAGE**

#### Average journey to work Rural district travel time (minutes) Copeland 22 Cotswold 27 Denbighshire 22 Forest Heath 15 High Peak 28 Monmouthshire 19 17 Moray North Norfolk 26 **Orkney Islands** 10 Oswestry 22 South Oxfordshire 32 Suffolk Coast 24 31 Wear Valley West Dorset 21 West Somerset 25

## Figure 2: Average journey to work travel times in selected rural districts in the UK, 2016

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

**2.** (a) (i) Using the data in **Figure 2**, calculate the range of journey to work travel times in rural districts. Show your working. [2]

(ii) Suggest **one** reason why the range is a useful measure to analyse the data shown in **Figure 2**. [1]

.....

	(iii)	Describe how you would calculate the interquartile range for the data shown in Figure 2. [4	Examiner only
(b)	Exan	nine the consequences of the loss of traditional industries in urban areas. [13	
······			
			•
······			

	Examiner only
Additional space for question $2/b$ :	



## Section B – Fieldwork Investigation in Physical and Human Geography

Answer all questions.

In your answers to Section B you should include evidence from **your** fieldwork investigations in **physical** geography and **human** geography.

- 3. A group of A level Geography students visited Cambridge to investigate the impacts of quaternary industry clusters on people and places.
  - (a) (i) Using Figure 3 in the Resource Folder, state the distance from the centre of Cambridge Science Park (marked by centre of X at 464617) to Cambridge North Station (475606) giving your answer in km to 1 decimal place. [1]
    - (ii) Calculate the area occupied by Cambridge Science Park giving your answer in km<sup>2</sup> to 2 decimal places. Show your workings. [3]

Examiner only During the visit, the students investigated the geographical question: What is the impact of Cambridge Science Park on local people in Milton (4762)? (b) Outline the sources of secondary data and information that could be used to support the investigation of this hypothesis. [5] .....

The students carried out a bipolar survey asking 20 Milton residents to rate their opinions of factors affecting their daily lives. The results are recorded below:

Ũ		•				
	-2	-1	0	+1	+2	
Heavy traffic	]]]]] ]]]]]	]]]]] ]]		JJ	J	No awareness of passing traffic
High level of pollution from vehicles	] ] ] ] ] ] ] ] ] J ] J ] J	]]]]	J	JJ		Low level of pollution from vehicles
Journey to work travel times over 30 minutes	]]]]] ]]]]] ]]		JJ	ノノノノ	JJ	Journey to work travel times less than 10 minutes
House prices rising beyond incomes	]]]]] ]]]]] ]]]]] ]	JJJJ				House prices stable
Long wait for GP appointment	]]]]]	JJ	]]]]]		] ] ] ] J ] J J	Short wait for GP appointment
Totals	-112	-17	0	8		

## Figure 4: Results from bipolar survey

(c) (i) Calculate the total score for column '+2'. Insert the total in **Figure 4**.

[1]

Examiner only



Turn over.

(iii)

•••••	 	 	 	•••••	 	 	 	•••••	•••••	 	 •••••	 	 	
	 	 	 		 	 	 	•••••		 	 	 	 	
	 	 	 		 	 	 	•••••		 	 	 	 	
•••••	 	 	 		 	 	 			 	 	 	 	

The same 20 residents were also asked 'how many of your neighbours do you know?' The results are shown in **Figure 5**.

15

Despendent	Number of
Respondent	known
1	3
2	15
3	4
4	4
5	2
6	1
7	6
8	0
9	0
10	0
11	8
12	4
13	2
14	11
15	0
16	2
17	3
18	7
19	5
20	0

## Figure 5: Answers to the question 'how many of your neighbours do you know?'

(d) The students were told to use one measure of central tendency (mean, median, mode) in analysing the data in Figure 5. Justify which of these measures would be most appropriate.
[3]

.....

					[10]
rou snould state c	clearly the title of y	our <b>pnysical</b> geo	grapny investigati	ion.	
Additional space f	or question <b>4</b> :				
·					

geeg.ep		[10]
You should state clearly the ti	itle of your <b>human</b> geography investigation.	
		•••••
Additional anona for supetion	E-	
Auditional space for question	ວ.	

For continuation only.	Examiner only
© WJEC CBAC Ltd. (B110U20-1)	

For continuation only.	Examiner only

For continuation only.	Examiner only
© WJEC CBAC Ltd. (B110U20-1)	

# **BLANK PAGE**