Surname	Centre Number	Candidate Number
First name(s)		2

GCE AS

B110U20-1

S24-B110U20-1

WEDNESDAY, 22 MAY 2024 – MORNING

GEOGRAPHY – AS component 2
CHANGING PLACES

1 hour 15 minutes

For Examiner's use only		
Question	**Maximum Mark**	**Mark Awarded**
1.	**21**	
2.	**19**	
3.	**20**	
4.	**10**	
5.	**10**	
Total	**80**	

B110U201
01

ADDITIONAL MATERIALS

A calculator.

INSTRUCTIONS TO CANDIDATES

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.

Answer **all** questions.

Write your answers in the spaces provided in this booklet. If you run out of space, use the additional page(s) at the back 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.

© WJEC CBAC Ltd.

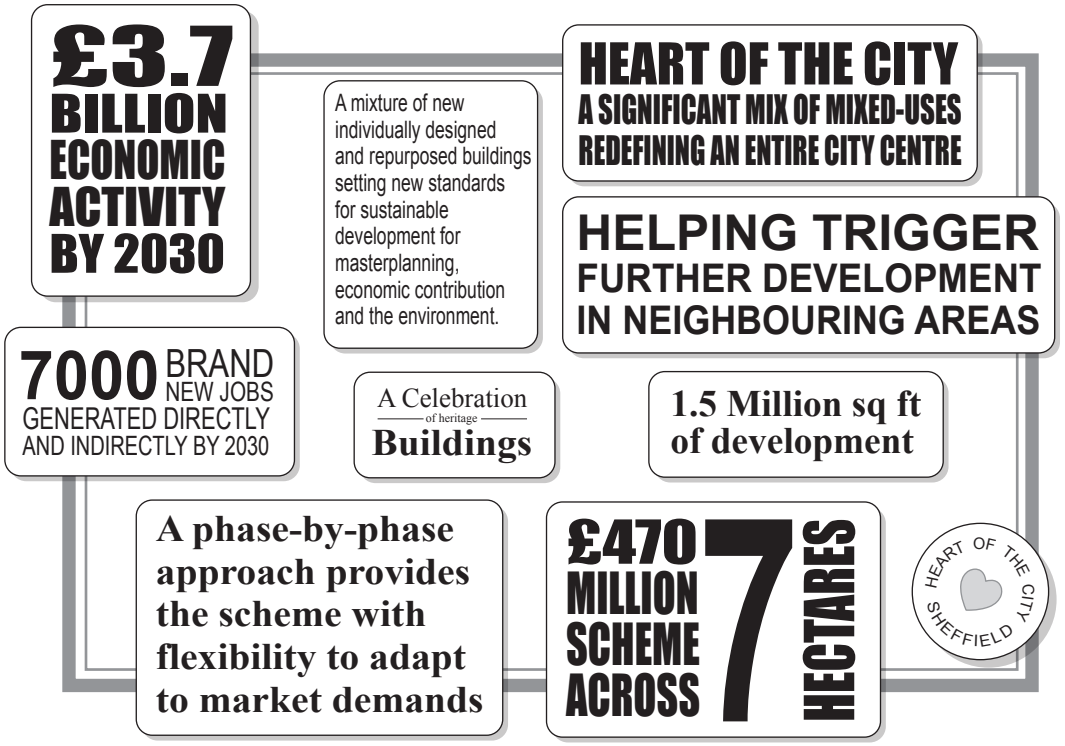
Examiner only

Section A: Changing Places

Answer **all** questions.

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

Figure 1: Extract from a brochure outlining 'The Heart of the City': a redevelopment project in central Sheffield, 2022



Source: https://heartofsheffield.co.uk/updates-and-downloads.html

1. (a) (i) Use **Figure 1** to suggest ways in which Sheffield City Council are planning to redevelop 'The Heart of the City'. [4]

.....

.....

.....

.....

.....

.....

.....

.....

© WJEC CBAC Ltd.

Examiner only

Figure 2: Sheffield's employment structure, 2022 (%)

Sector of employment	% employed
Manufacturing	10.71
Private knowledge intensive business services	12.42
Other private sectors	40.83
Public services	
Other sectors	4.94
Total	100

(ii) Use the data in **Figure 2** to calculate the percentage of employees working in Public services. Show your working. [2]

(iii) Suggest why rising affluence is considered an important driver of entertainment expansion in some central areas. [5]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

© WJEC CBAC Ltd.

Examiner only

(b) Examine the consequences of government policies in deindustrialised urban areas. [10]

© WJEC CBAC Ltd.

Examiner only

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

.....

.....

.....

.....

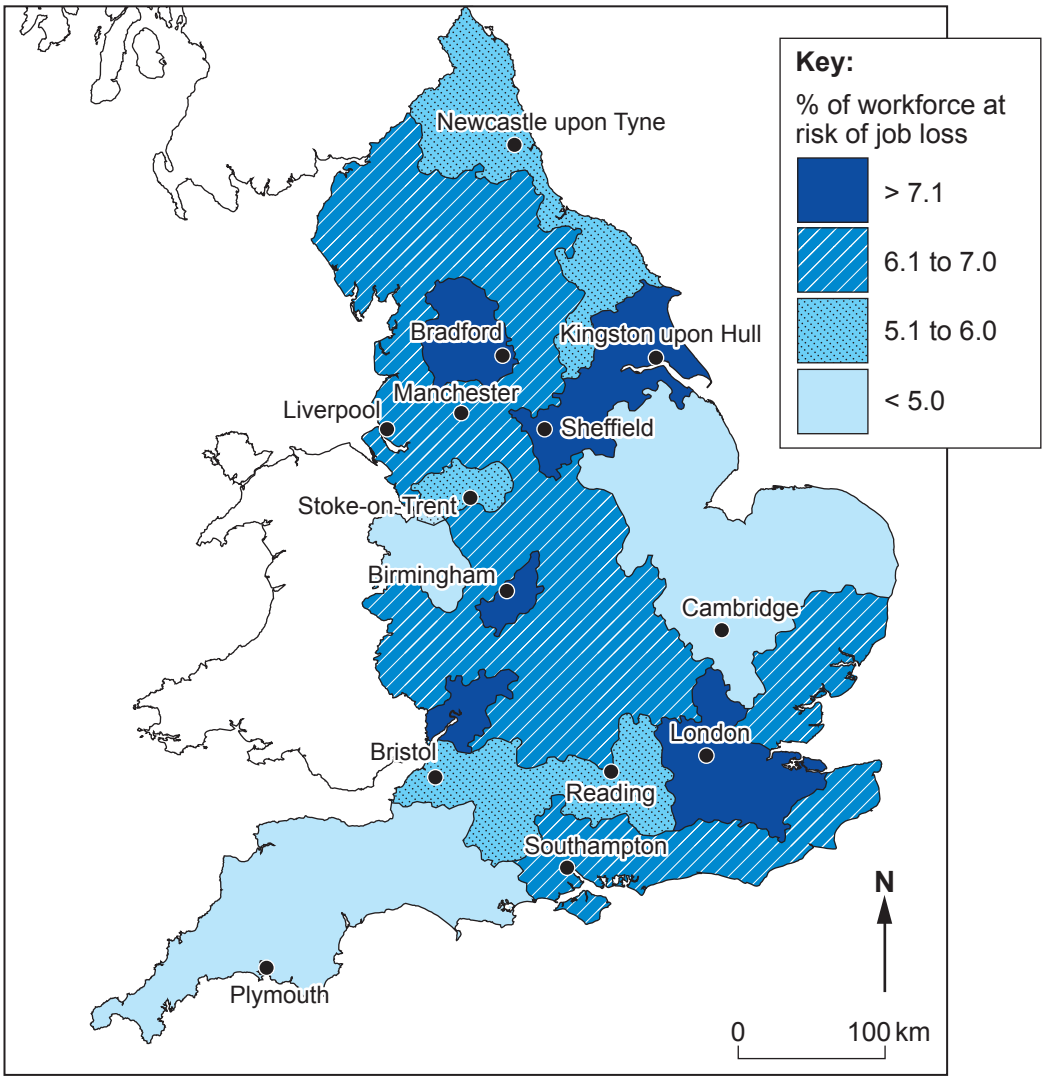
.....

© WJEC CBAC Ltd.

Turn over.

Examiner only

Figure 3: Risk of job losses in England following the global financial crisis, 2008–2010



Source: https://i.dailymail.co.uk/i/pix/2008/11/17/article-1086527-028088E4000005DC-103_468x722.jpg

2. (a) Use **Figure 3** to describe the pattern shown. [4]

.....

.....

.....

.....

.....

.....

© WJEC CBAC Ltd.

Examiner only

(b) Explain how globalisation has led to a decline in primary employment in rural areas. [5]

© WJEC CBAC Ltd.

Examiner only

(c) Assess the challenges associated with counter-urbanisation and second home ownership in rural communities. [10]

Additional space for Question **2**(c):

© WJEC CBAC Ltd.

Examiner only

© WJEC CBAC Ltd.

Turn over.

Examiner only

Section B: Fieldwork 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.

A group of AS level Geography students set out to investigate issues surrounding rural change and inequality in rural Northumberland. They wanted to investigate access to healthcare services. The students conducted 36 questionnaires as part of their data collection method.

Figure 4: Extract from students' questionnaire

Q: What was your household's **main** use of healthcare services in the previous 12 months? Please select **one** answer (only).

- Hospital visits relating to a significant illness (for example, diabetes, cancer) ☐
- 'Alternative' healthcare providers (for example, acupuncturist, chiropractor) ☐
- GP appointments ☐
- Routine appointments (for example, dental / eye checks / physiotherapy) ☐

The students completed a Chi-square test to analyse their results.

Hypothesis: there is an association between household uptake of healthcare services and main use of healthcare services.

Null hypothesis: there is no significant association between household uptake of healthcare services and main use of healthcare services.

Figure 5: Chi-square data table

	observed	expected	(o–e)	$(o–e)^2$	$(o–e)^2/e$
Hospital visits relating to a significant illness	3	9	−6	36	4
'Alternative' healthcare providers	6	9	−3	9	1
GP appointments	16	9	.....	.....	.....
Routine appointments	11	9	2	4	0.44
Total	36	36	n/a	n/a	10.88

© WJEC CBAC Ltd.

Examiner only

3. (a) (i) Calculate the missing values for the 'GP appointments' category and insert them into **Figure 5** giving your answers to **two** decimal places where appropriate. [3]

(ii) Use **Figure 6** to interpret the result of the Chi-square test. [2]

.....

.....

.....

.....

Figure 6: Critical values of Chi-square test

Significance (confidence level)		
Degrees of freedom	95% (0.05)	99% (0.01)
3	7.82	11.34
4	9.49	13.28
5	11.07	15.09

(iii) Explain why you would **either** accept **or** reject the null hypothesis. [2]

.....

.....

.....

.....

(iv) Identify an appropriate graphical technique to display the observed data shown in **Figure 5**. [1]

.....

.....

(v) Justify your choice of graphical technique in **3**(a)(iv). [2]

.....

.....

.....

.....

© WJEC CBAC Ltd.

Examiner only

The students sampled a mother-and-toddler group and a pensioners' lunch club for their questionnaire survey.

(b) Suggest what impact this sampling strategy might have on the questionnaire results. [5]

The students were keen to include both qualitative and quantitative data collection methods in their investigation.

(c) Outline the advantages and disadvantages of qualitative data collection methods. [5]

© WJEC CBAC Ltd.

BLANK PAGE

PLEASE DO NOT WRITE ON THIS PAGE

© WJEC CBAC Ltd.

Examiner only

4. With reference to your fieldwork investigation in **physical** geography, assess how useful your investigation was to your understanding of the geographical idea on which it was based. [10]

*You should state clearly the title of your **physical** geography investigation.*

Title:

© WJEC CBAC Ltd.

Examiner only

Additional space for Question **4**:

.....

.....

.....

.....

.....

© WJEC CBAC Ltd.

Examiner only

5. With reference to your fieldwork investigation in **human** geography, evaluate the method(s) used to analyse your data. [10]

*You should state clearly the title of your **human** geography investigation.*

Title:

© WJEC CBAC Ltd.

Examiner only

Additional space for Question **5**:

.....

.....

.....

.....

.....

END OF PAPER

© WJEC CBAC Ltd.

Examiner only

© WJEC CBAC Ltd.

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

Examiner only

© WJEC CBAC Ltd.

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

Examiner only

© WJEC CBAC Ltd.