



GCE A LEVEL

A110U10-1

WEDNESDAY, 17 MAY 2023 - MORNING

GEOGRAPHY – A LEVEL COMPONENT 1

CHANGING LANDSCAPES AND CHANGING PLACES

1 hour 45 minutes plus your additional time allowance

ADDITIONAL MATERIALS

Resource Folder.

A WJEC pink 16-page answer booklet.

A calculator.

INSTRUCTIONS TO CANDIDATES

Use black ink, black ball-point pen or your usual method.

Write your answers in the separate answer booklet provided.

Write your name, centre number and candidate number in the spaces at the top of the answer booklet.

Answer in Section A, EITHER questions 1, 2 and EITHER 3 OR 4 (Coastal Landscapes) OR questions 5, 6 and EITHER 7 OR 8 (Glaciated Landscapes).

Answer questions 9, 10 and, EITHER 11 OR 12 in Section B (Changing Places).

(Turn over)

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.

(Turn over)

SECTION A: CHANGING LANDSCAPES

Answer EITHER questions 1 AND 2 and EITHER 3 OR 4 OR questions 5 AND 6 and EITHER 7 OR 8 from your chosen landscape.

Make the fullest possible use of examples in support of your answers.

COASTAL LANDSCAPES

Answer questions 1 AND 2 and EITHER 3 OR 4 if this is your chosen landscape.

- 1 (a) Use FIGURE 1 opposite to analyse variations in the impacts of coastal erosion. [5 marks]**
- (b) Outline how sediment is transported by the coastal processes of (i) longshore drift and (ii) solution. [8 marks]**

(Turn over)

2 (a) Use FIGURE 2 in the RESOURCE FOLDER to:

(i) State the six-figure grid reference of the viewpoint.

Write the answer in your booklet. [1 mark]

(ii) Identify and locate, using four-figure grid references, TWO different landforms that suggest coastal erosion has taken place.

Write the answers in your booklet. [4 marks]

2 (b) Suggest how seasonal variations in coastal processes may influence the characteristics of ONE coastal landform. [8 marks]

EITHER,

3 Assess the relative importance of fluvial processes in the formation of landforms in low energy coastal environments. [15 marks]

OR,

4 Examine the positive impacts of coastal processes on human activity. [15 marks]

(Turn over)

GLACIATED LANDSCAPES

Answer questions 5 AND 6 and EITHER 7 OR 8 if this is your chosen landscape.

- 5 (a) Use FIGURE 3 opposite to analyse variations in the potential impacts of glacial lake outburst floods. [5 marks]**
- (b) Outline how glaciers move by (i) internal deformation and (ii) basal sliding. [8 marks]**

(Turn over)

6 (a) Use FIGURE 4 in the RESOURCE FOLDER to:

- (i) State the six-figure grid reference of the viewpoint.**

Write the answer in your booklet. [1 mark]

- (ii) Identify and locate, using four-figure grid references, TWO different landforms that suggest glacial erosion has taken place.**

Write the answers in your booklet. [4 marks]

- (b) Suggest how post-glacial processes may influence the characteristics of ONE glacial landform. [8 marks]**

EITHER,

- 7 Assess the relative importance of processes of glacial deposition in the formation of landforms in lowland glacial landscapes. [15 marks]**

OR,

- 8 Examine how glacial budgets vary over different timescales. [15 marks]**

(Turn over)

SECTION B: CHANGING PLACES

Answer questions 9 AND 10 and EITHER 11 OR 12.

Make the fullest possible use of examples in support of your answers.

- 9 (a) Use FIGURE 5 opposite to analyse the pattern of gentrification. [5 marks]**
- (b) Explain why cities with high levels of gentrification may experience social changes. [8 marks]**

- 10 (a) Use FIGURE 6 opposite to compare the age characteristics of the populations shown. [5 marks]**
- (b) Outline TWO inequalities associated with change in rural communities. [8 marks]**

EITHER,

- 11 Examine ways in which place meanings and representations can influence change in one or more places. [15 marks]**

OR,

- 12 Assess the consequences of industrial decline in urban places. [15 marks]**

END OF PAPER

(Turn over)

FIGURE 1: SELECTED IMPACTS OF COASTAL EROSION IN TWO NIGERIAN STATES



			ECONOMIC LOSSES DUE TO EROSION (MILLIONS US\$)	
STATE	AVERAGE EROSION RATE (HECTARES/YEAR)	COASTAL POPULATION (MILLIONS)	INFRASTRUCTURE (BUILDINGS, POWER GRIDS)	AGRICULTURE
CROSS RIVER	169.3	1.0	89	13
LAGOS	24.9	10.2	835	124

Source: <https://openknowledge.worldbank.org/handle/10986/34758>

FIGURE 3: SELECTED POTENTIAL IMPACTS OF GLACIAL LAKE OUTBURST FLOODS (GLOFs) IN NEPAL



			POTENTIAL ECONOMIC LOSSES OF GLOF (THOUSANDS US\$)	
GLACIAL LAKE	EXPANSION RATE (MILLION CUBIC METERS/YEAR)	POPULATION POTENTIALLY AFFECTED	INFRASTRUCTURE (BUILDINGS, POWER GRIDS)	AGRICULTURE
THULAGI	0.53	165 068	234	335 784
IMJA TSHO	0.50	96 767	932	2037

Source: <https://lib.icimod.org/record/27755>

FIGURE 5: NUMBER OF NEIGHBOURHOODS GENTRIFIED IN SELECTED CITIES IN WESTERN USA, 2000–2013

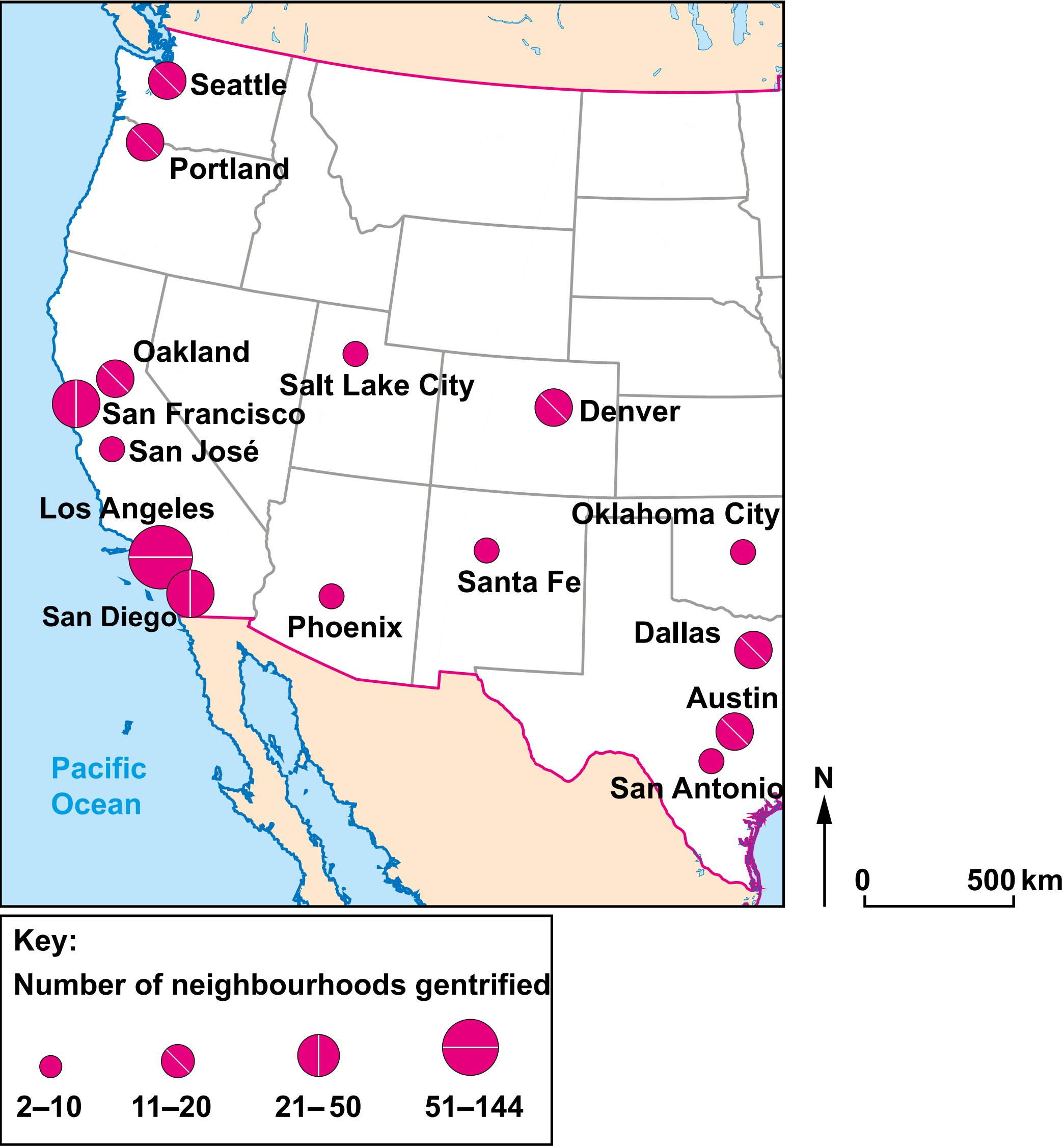


FIGURE 6: POPULATION STRUCTURE OF BRISTOL AND CLIFTON, 2019

