

Surname	Centre Number	Candidate Number
First name(s)		0



GCSE

C112U20-1



FRIDAY, 6 JUNE 2025 – AFTERNOON

GEOGRAPHY B – Component 2

Problem Solving Geography

1 hour 30 minutes

For Examiner's use only		
	Maximum Mark	Mark Awarded
Part A	38	
Part B	22	
Part C	12	
SPaG	4	
Total	76	

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ADDITIONAL MATERIALS

Resource Folder.

Calculator and a ruler if required.

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. Additional space is provided for some questions within the booklet (if required). If further space is required for any question, you should use the additional 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 Part C.



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Answer **all** questions.

The city of Cleveland is in the state of Ohio, in the north-eastern United States of America (USA). The USA is a High Income Country (HIC). In recent years, Cleveland has suffered industrial decline. The government of Cleveland is considering ideas from across the country to improve life for its citizens.

This paper is in three parts:

Part A: explores some of the issues Cleveland is facing. 38 marks

Part B: looks at what other cities in the USA are doing to solve similar issues. 22 marks

Part C: asks you to choose an option to improve life in Cleveland. 16 marks

Part A

You are advised to spend about **40 minutes** on this part.

- (a) (i) Cleveland is a global city. Tick (✓) the box next to the correct definition of a global city. [1]

	Tick (✓)
A city which plays an important role in the global economic system of finance and trade.	
A city which leads the world on environmental matters.	
A city of more than 10 million people.	



- (ii) Study **Figure 1** on **page 2** of the **Resource Folder**. It shows median household incomes for different groups within Cleveland, plus overall median household incomes for Cleveland, Ohio and the USA.

Give **three** conclusions about median household incomes in Cleveland that you can draw from this graph. [3]

Conclusion 1:

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Conclusion 2:

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Conclusion 3:

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- (iii) Study **Figure 2** on **page 2** of the **Resource Folder**. It shows the population of Cleveland from 1940 to 2020.

Describe the trend shown in the graph. You may use figures to support your answer. [2]

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- (iv) Study **Figure 3** on **page 3** of the **Resource Folder**. It shows percentage population change in Cleveland 2010-2020.

Give **two** ways the population distribution of Cleveland changed between 2010 and 2020. [2]

Way 1:

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Way 2:

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- (v) Suburbs across HIC cities have grown rapidly in recent years.

Give **one** reason why suburbanisation has an effect on people that still live in city centres. [2]

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- (b) (i) Study **Figure 4** on **page 4** of the **Resource Folder**.

Figure 4 highlights uneven levels of development within the USA.

Suggest **one** negative social consequence of uneven development for Cleveland. [2]

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- (ii) Give **two** reasons why there are advantages of using both economic and social data to measure development. [4]

Reason 1:

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Reason 2:

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(iii) Explain why social factors contribute to population movement within HICs. [4]

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Cleveland's economy has been historically dominated by making goods in factories (manufacturing). Manufacturing jobs declined by 41% between 1990 and 2012.

Much of this decline was due to globalisation.

- (c) (i) Give a definition of globalisation. [1]

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- (ii) Explain why globalisation may have led to a change in jobs in HICs. [6]

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- (iii) Suggest what might have been one positive social consequence of globalisation in Cleveland. [2]

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- (d) (i) Study **Figure 5** on **page 5** of the **Resource Folder**.

Estimate the **percentage** of sites that are vacant.

[1]

..... %

- (ii) Zones of deprivation within HIC cities often have vacant sites.

Name **four** other distinctive features of zones of deprivation.

[4]

Feature 1:

Feature 2:

Feature 3:

Feature 4:

- (e) Suburbanisation in many HIC cities has meant an increased number of car journeys.

Explain why more car journeys will affect the global environment.

[4]

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End of Part A



Part B

You are advised to spend about **25 minutes** on this part.

- (a) Cleveland's government is considering three different solutions, all tried in other US cities, to attempt to solve its problems. The locations of these cities are shown on **Figure 6** on **page 6** of the **Resource Folder**.

The government of Cleveland is aiming to create a sustainable community for its citizens.

Define the term sustainable community.

[1]

Solution A

Culdesac is an infill development in Tempe, close to the centre of Phoenix in the state of Arizona. It has 1000 residents but zero cars and parking spaces. Residents are not even allowed to park a car within a mile of their houses. One result of a ban on parking spaces is that there are more opportunities for public green spaces.

The project includes housing, restaurants and good public transport links.

Culdesac gets rid of the need for cars by providing all of the necessary services within the neighbourhood. There are grocery stores, coffee shops, workspaces and other shops on site.

Cleveland is considering creating similar areas on its brownfield sites.



- (b) (i) Tick (✓) the correct definition of infill development.

[1]

	Tick
Demolishing existing buildings in order to use land for other purposes.	
Building on previously unused land on the urban fringe.	
Building on previously unused land or underused land in urban areas.	

- (ii) Describe **two** improvements that brownfield development can bring to urban areas.

[4]

Improvement 1:

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Improvement 2:

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- (iii) Suggest how developments like Tempe can help reduce the risk of climate change.

[4]

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(c) Solution B

Study **Figure 7** on **page 7** of the **Resource Folder**. It shows global gigafactory battery production.

- (i) Describe the global distribution of battery production shown on **Figure 7**. [2]

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(ii)



A gigafactory is being built near Reno, a city in Nevada.

- Gigafactory Nevada produces batteries for electric cars.
- The factory is owned and operated by Tesla, a MNC. When fully built, it will be the largest building in the world.
- The factory has been designed to be entirely energy self-sufficient through a combination of renewable resources.
- This factory already employs about 7000 people and there are plans to hire thousands more workers.

The government of Cleveland is considering offering huge incentives to encourage Tesla to build its next gigafactory near Cleveland.

Suggest how a gigafactory, like the one in Nevada, could bring economic benefits to Cleveland. [4]

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(d) **Solution C**

Study **Figure 6** on **page 6** of the **Resource Folder**.

- (i) Circle the correct answers in the sentences below: [2]

The distance between Cleveland and Detroit is **150 km** **300 km** **500 km**

The direction from Cleveland to Detroit is **South West** **North East** **North West**

- (ii) Detroit has faced similar problems to Cleveland in the past. It has begun to overcome some of its issues by attracting new developments through lowering taxes to attract new investment.

Cleveland's government is thinking about doing the same thing.

Explain why attracting new investment to HIC cities could help create an economically sustainable urban environment. [4]

END OF PART B



You are advised to spend about **25 minutes** on this part.

Which solution would you recommend? You must only choose one of the three.

Solution B: Paying MNCs to build gigafactories, such as in Nevada.

Solution C: Attracting new investment by lowering taxes, such as in Detroit.

Write a report that explains the reasons behind your recommendation.

[12]

[4]



[illegible]

END OF PAPER



[illegible]

[illegible]