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| Surname | Centre Number | Candidate Number |



C112U20-1



FRIDAY, 9 JUNE 2023 – MORNING

GEOGRAPHY B – Component 2

Problem Solving Geography

1 hour 30 minutes

| For Exa | aminer's us | e only |
|---------|-----------------|-----------------|
| | Maximum Mark | Mark Awarded |
| Part A | 46 | |
| Part B | 14 | |
| Part C | 12 | |
| SPaG | 4 | |
| Total | 76 | |

ADDITIONAL MATERIALS

Resource Folder.

In addition to this paper you may use a 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** guestions.

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.



| | s the capital city of Indonesia, a Newly Industrialised Country (NIC). Ja ced rapid growth in recent years and faces several problems. | |
|-----------|--|--------------------------------|
| Part A: | explores the problems of coastal management and living in Jakarta. | 46 marks |
| Part B: | offers some solutions to these issues. | 14 marks |
| Part C: | asks you to justify your choice of solution. | 16 marks |
| | Part A | |
| | You are advised to spend about 45 minutes on this part. | |
| (a) (i |) Study Figure 1 on page 2 of the Resource Folder. | |
| De | escribe the location of Jakarta. | [2] |
| | | |
| | | |
| | udy Figure 2 on page 2 of the Resource Folder . It shows Jakarta's po owth. | opulation |
| | owth. | |
| gr |) Describe the changes in Jakarta's population between 1870 and 20 |)20. [2] |
| gr (ii | Describe the changes in Jakarta's population between 1870 and 20 Describe the changes in Jakarta's population between 1870 and 20 Describe the changes in Jakarta's population between 1870 and 20 Describe the changes in Jakarta's population between 1870 and 20 |)20. [2] ve four [4] |
| gr (ii | Describe the changes in Jakarta's population between 1870 and 20 Population growth like this can cause problems for urban areas. Gi potential problems. |)20. [2] ve four [4] |
| gr (ii | Describe the changes in Jakarta's population between 1870 and 20 Population growth like this can cause problems for urban areas. Gi potential problems. 1. |)20. [2] ve four [4] |



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| | (iv) | Explain why cities benefit from population growth. | [4] |
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| | •••••• | | |
| (b) | (i) | Jakarta's coast currently receives some protection from sea walls. | |
| | | Name two benefits of a sea wall. | [2] |
| | <u>.</u> | Benefit 1: | |
| | | Benefit 2: | |
| | (ii) | Give two reasons why sea walls might not be a long-term solution. | [4] |
| | | Reason 1: | |
| | | | |
| | | Reason 2: | |
| | ••••• | | |
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| | | | Amount of sinking | |
|----|----|---------------------|-------------------|------|
| | | Location | (cm/year) | |
| | 1 | Tanjung Priok | 10.1 | |
| | 2 | Penjaringan | 10.7 | |
| | 3 | Pademangan | 10.8 | |
| | 4 | Koja | 11.6 | |
| | 5 | Kelapa Gading | 12.6 | |
| | 6 | Cilincing | 12.5 | |
| | 7 | Pulo Gadung | 8.3 | |
| | 8 | Matraman | 5.4 | |
| | 9 | Duren Sawit | 0.7 | |
| | 10 | Cakung | 7.4 | |
| | 11 | Pancoran | 5.6 | |
| | 12 | Tambora | 15.9 | |
| | 13 | Taman Sari | 15 | |
| () | | nedian value of the | ese measurements. | [2] |
| | | | Ansv | ver: |



C112U201 05

| iii) | Join the terms 'over-abstraction' and 'water footprint' with a straight line to the correct definition. | he [2] |
|------|---|-----------|
| | Taking too much water from an aquife | er |
| | The water used by a household | |
| | Over-abstraction Water lost by evaporation from a fores | st |
| | Water footprint Having enough water all the year | |
| | How much water flows through a rive | er |
| /) | Study Figure 4 on page 4 of the Resource Folder. | |
| | Suggest why Jakarta is sinking. | [4] |

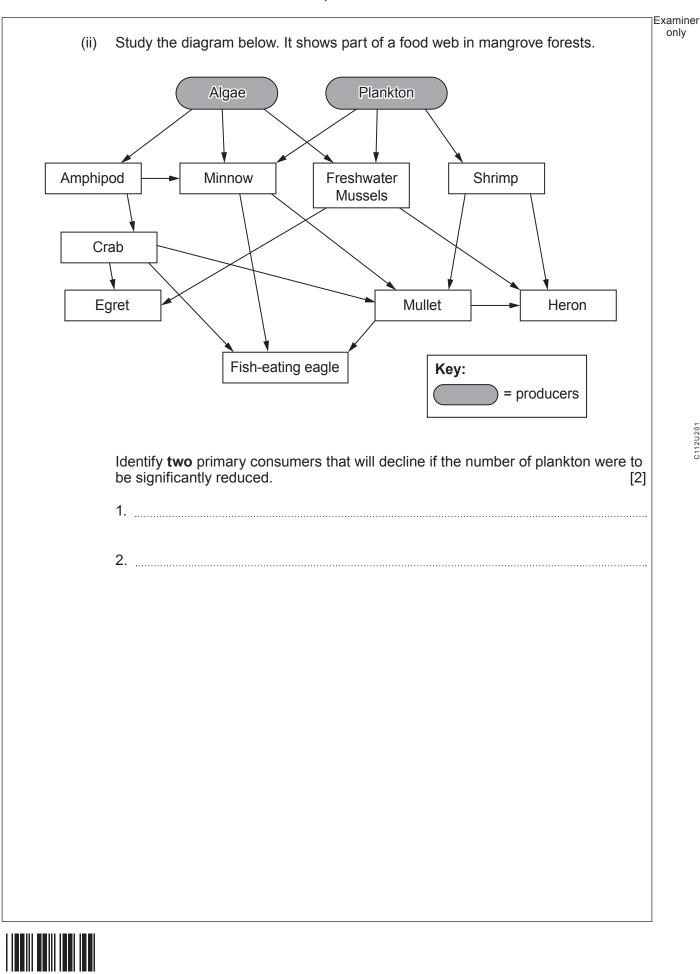


| | Explain why the p | oorest ho | using is often locate | ed on the edge of cities in |
|-----|--------------------|---|--|-----------------------------|
| | LICs/NICs. | 001031110 | | [4 |
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| (i) | Study the table be | elow. | | |
| M | angrove forest alo | na the ca | oastline in Jakarta | |
| | | | | . Indonesia over time |
| | | J | | a, Indonesia over time |
| | | Year | Mangrove (km²) along coastline in Jakarta | |
| | | | Mangrove (km ²) along coastline | |
| | | Year | Mangrove (km ²) along coastline in Jakarta | |
| | | Year 1980 | Mangrove (km ²) along coastline in Jakarta 116.5 | |
| | | Year 1980 2000 | Mangrove (km²) along coastline in Jakarta 116.5 16.8 | |
| | There have been | Year 1980 2000 2010 2016 100 km ² c | Mangrove (km²) along coastline in Jakarta 116.5 16.8 17.1 16.5 of mangrove lost fro | m 1980 to 2016. |
| | There have been | Year 1980 2000 2010 2016 100 km ² c | Mangrove (km²) along coastline in Jakarta 116.5 16.8 17.1 16.5 of mangrove lost fro | |



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07

| | | End of Part A | |
|-------|--------------|--|---------|
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| | - | gest how climate change could make Jakarta's problems worse. | [6] |
|) | Clim grou | ate change is affecting Jakarta by making the problems of coastal flooding, and mangrove forest loss, worse. | sinking |
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| | | Explain why some ecosystems are being modified/changed by people. | [4] |



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| | | Part B |
|-------|---------------|---|
| | | You are advised to spend about 20 minutes on this part. |
| laka | rta's g | overnment is considering three options to reduce the threats facing its people. |
| (| Optio | n 1: Build the Giant Sea Wall. This is another, bigger, sea wall further out to sea to 'hold the line'. |
| Study | y Fact | File 1 on page 5 of the Resource Folder . |
| The (| Great | Sea Wall will be built with aid from The Netherlands (a HIC). |
| (a) | (i) | Give two reasons why there are advantages to High Income Countries (HICs) that donate aid. |
| | | Reason 1: |
| | | |
| | | |
| | | Reason 2: |
| | | |
| | (ii) | The government of Jakarta is working with The Netherlands to build the Great Sea Wall. |
| | | Give two advantages that working with a HIC may bring for the government of a NIC. |
| | | Advantage 1: |
| | | Advantage 2: |
| | | |



| Op | otion 2: | Replant the mangrove forests. The government is considering replanting the mangrove forests that have been lost. | |
|-----|----------|--|--------------|
| b) | Study I | Fact File 2 on page 6 of the Resource Folder. | |
| | Why m | ight fishermen in Jakarta be in favour of replanting the mangrove forests? | [2] |
| | | | ······ |
| 0 | ption 3: | Retreat the line and build a new capital city. The government is considering whether to defend Jakarta's coastline at all. If the coastline is not defended it is called "retreat the line". To relieve some of the pressures on Jakarta, the government is planning on moving to a brand-new city in another part of Indonesia with no risk of flooding. | |
| | | | - 1 |
| (C) | | Study Figure 6 on page 7 of the Resource Folder . Describe the location of proposed new capital city in relation to Jakarta. | f the [2] |
| (C) | a | proposed new capital city in relation to Jakarta. | |
| (c) | Moving | proposed new capital city in relation to Jakarta. | |
| (c) | Moving | proposed new capital city in relation to Jakarta. | [2] |



| (iii) | Explain one problem removing poor quality housing will have for the people that live there. [2] | Examiner only |
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| | End of Part B | |
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| Part C | Exa |
|--|-----|
| You are advised to spend about 25 minutes on this part. | |
| The government is considering three options to reduce the threats facing its people. | |
| Which one option should the government choose for Jakarta? | |
| Option 1:Build the Giant Sea WallOption 2:Replant the mangrove forestsOption 3:Retreat the line and build a new capital city. | |
| Write a report that considers which option the government should choose. | |
| Consider the social, economic, and environmental sustainability of your decision. You should use the resources from this paper as well as your own studies. [12] | |
| Your ability to spell, punctuate and use grammar and specialist terminology accurately will be assessed in your answer. [4] | |
| I have chosen Option | |
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| Question number | Additional page, if required. Write the question number(s) in the left-hand margin. | Examiner only |
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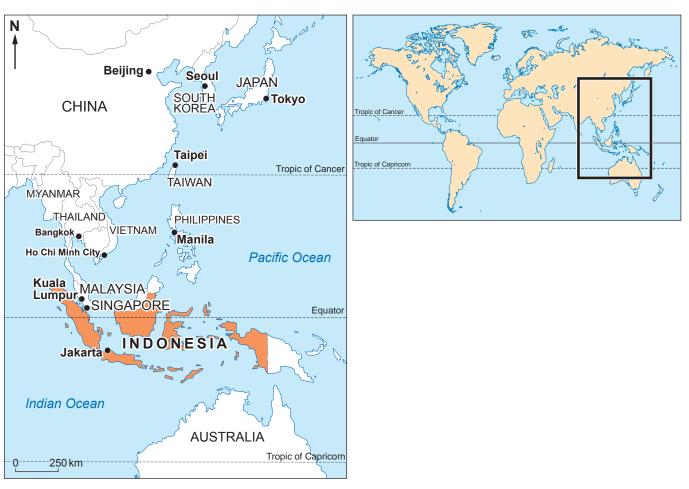


FRIDAY, 9 JUNE 2023 – MORNING

GEOGRAPHY B – Component 2

RESOURCE FOLDER

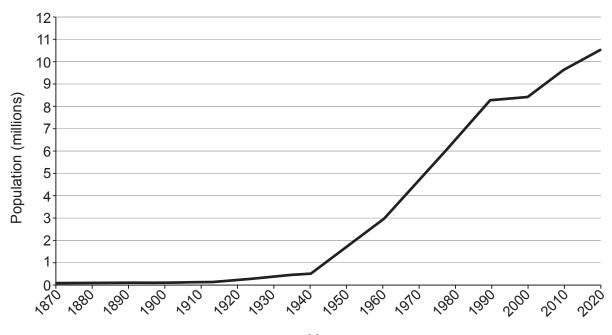
This folder is for use with questions in Component 2. This folder need not be handed in with your answer booklet.





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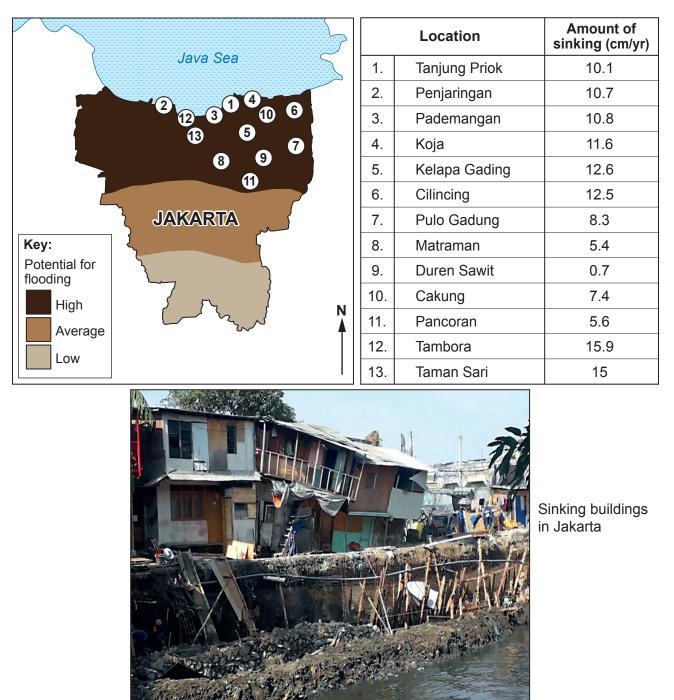


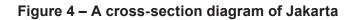




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Figure 3 – Jakarta is sinking





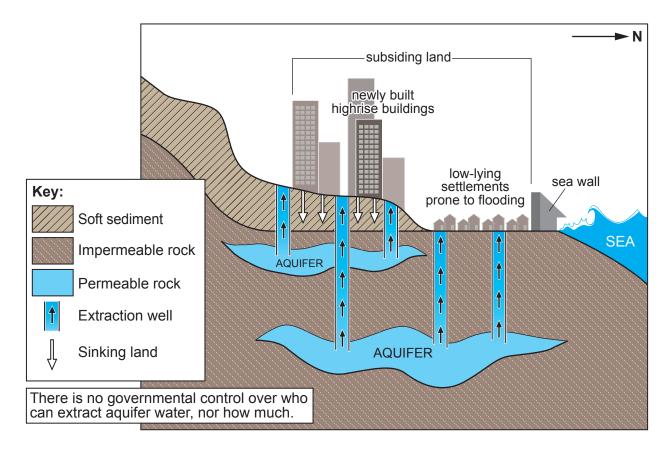


Figure 5 – The current sea wall at Jakarta







Fact File 2 – Mangrove forests





Figure 6 – Jakarta and the new site

7

Fact File 3 – A new capital city

