



TEMASEK JUNIOR COLLEGE

JC1 PROMOTIONAL EXAMINATION

Higher 1



H1 GEOGRAPHY

8834/01

25 September 2023

Additional Materials: 1 Insert

1 hour and 45 minutes

READ THESE INSTRUCTIONS FIRST

An answer booklet will be provided with this question paper. You should follow the instructions on the front cover of the answer booklet. If you need additional paper ask the invigilator for a continuation booklet.

Write in dark blue or black pen on both sides of the paper.

You may use an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

Answer both questions in **Section A**.

Answer one of the two questions in **Section B**.

The Insert contains all the Resources referred to in the questions.

You should make reference to appropriate examples studied in the field or the classroom, even where such examples are not specifically requested by the question.

Diagrams and sketch maps should be drawn whenever they serve to illustrate an answer.

You are reminded of the need for good English and clear presentation in your answers.

The number of marks is given in brackets [] at the end of each question or part question.

This document consists of **3** printed pages, and **1** blank page.

Section A

Answer the question.

Cluster 1: Sustainable Futures and Climate Change

- 1** Resource 1 shows the changes in percentage of people living in urban areas in 1950, 2007 and 2030 (estimated). Resource 2 shows part of an urban slum in Nairobi, Kenya.
- (a)** Using Resource 1, describe the changes in percentage of people living in urban areas from 1950 to 2007. [4]
 - (b)** Suggest reasons for the projected changes in percentage of population in urban areas in Europe from 2007 to 2030 as shown in Resource 1. [5]
 - (c)** Using Resource 2, describe the characteristics of the urban slum. [4]
 - (d)** Explain how the concept of ecological footprint can help to measure sustainability. [4]
 - (e)** Using examples, explain **two** problems associated with non-hazardous solid waste in urban areas of countries at low levels of development. [5]

Cluster 1: Sustainable Futures and Climate Change

- 2** Resource 3 shows the trend in global temperature change and the trend in carbon dioxide concentration in the atmosphere since 1850. Resource 4 shows the world's top 10 emitters of carbon dioxide by country in 2018. Resource 5 shows the emissions sources for methane and nitrous oxide in the USA in 2018.
- (a)** Using Resource 3, compare the trends in global temperature change and carbon dioxide concentration. [4]
 - (b)** Using Resource 4, describe the regional variations of carbon dioxide emitters. [4]
 - (c)** Suggest reasons why there are variations in the level of carbon dioxide emissions shown in Resource 4. [5]
 - (d)** Compare the emissions sources for methane and nitrous oxide in the USA shown in Resource 5. [4]
 - (e)** Explain **two** natural causes of climate variability in the Quaternary. [5]

Section B

Answer **either** question 3 **or** question 4.

Cluster 1 Sustainable Futures and Climate Change

- 3** Evaluate the success of strategies to manage non-hazardous solid waste across places. [13]
- 4** Evaluate the success of the strategies used to address the issues faced by women living in cities. [13]

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