

Name:		Class:	
Centre Number:		Index Number:	



DUNMAN HIGH SCHOOL PRELIMINARY EXAMINATION Year 6

HIGHER 1 GEOGRAPHY

8834/01

Thursday

18 Sept 2025

3 hours

Additional materials: 1 Insert

READ THESE INSTRUCTIONS FIRST

If you have been given an Answer Booklet, follow the instructions on the front cover of the Booklet.

Write your Centre number, index number and name on the work you hand in.

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 Question 1 in **Section A**.

Answer both questions in **Section B**.

Answer **two** questions in **Section C**.

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

Section A

Cluster 2 Fieldwork

- 1 Five students wanted to carry out an investigation of the social needs of the elderly in a housing estate. In their secondary research, they found that the estate with the largest proportion of elderly in Singapore is Bedok and in the following proportions by age group:

Age group	
60-69:	15.0%
70-79:	10.7%
80 and above:	4.6%

The students produced a questionnaire to assess the needs of the elderly and to compare with the existing facilities in Bedok. Three sites, shown in Resource 1, were identified as potential sites to conduct the survey. After a preliminary visit to assess the suitability of the sites, the students eventually selected Site 1. On a weekday, between 0800h to 1000h, in June, the students conducted their survey at Site 1. They approached people, who appeared to be elderly and were willing to be surveyed, and verified their age and residential status before they conducted their survey using the questionnaire shown in Resource 2.

They surveyed a total of 65 elderlies:

20 aged 60-69 years
 25 aged 70-79 years
 20 aged 80 and above years

Resource 1 shows the locations of the potential and actual survey sites. Resource 2 is a sample of the survey questionnaire. Resource 3 is the results of the survey collected by the students.

- (a) Suggest a hypothesis for the investigation and explain why it is suitable. [4]
- (b) With reference to Resource 1, explain why the students selected Site 1 and not the other sites to conduct their survey. [3]
- (c) With reference to Resource 2, explain the strengths and limitations of the survey questionnaire. [4]
- (d) Use a suitable method to represent the results for Question 1 for the 70-79 age group shown in Resource 3. Justify your choice of method. [5]

- (e)** Compare the results for Question 1 for the 60-69 age group with the 80 and above age group shown in Resource 3. [4]
- (f)** Evaluate the extent to which the students can use the collected data to address the aim of their investigation. [10]

Section B**Cluster 1 Sustainable Future and Climate Change**

Answer **both** questions

- 2** Resource 4 shows the classification of the development status of countries by the Human Development Index (HDI) in 2022 and the sustainability indicators: World Biocapacity in 1961 and 2022 and the Ecological Footprint of countries in 2022. Resources 5A, 5B and 5C show the performance of three indicators of the slum deprivation index: sanitation, waste disposal and dwellings of slum settlements in the Lagos metropolis, Nigeria. Resource 6 shows a 'highly deprived' slum in the Lagos metropolis. The level of deprivation is based on the combined assessment of the indicators: sanitation, waste disposal and dwellings of the slum deprivation index.
- (a)** Describe the relationship between development and sustainability of the countries shown in Resource 4. [4]
- (b)** With reference to Resource 4, explain the possible challenges for the countries, with very high development and low development, in achieving sustainable urban development. [4]
- (c)** With reference to Resources 5A, 5B and 5C, describe the performance of the slum settlements as shown by the indicators of the slum deprivation index. [4]
- (d)** With reference to Resource 6, explain the issues of deprivation the residents of such slums face. [5]
- (e)** Explain the challenges to manage slums such as those in the Lagos metropolis. [5]

- 3** Resource 7 shows annual carbon emissions by world region from 1850 to 2022. Resource 8 shows the mean annual global sea level change from 1992 to 2010. Resource 9 shows strategies that have been proposed to manage sea level rise in the low-lying South Pacific islands. The South Pacific islands are low-income countries and located in the southern Pacific Ocean.

- (a) With reference to Resource 7, compare the changes in annual carbon emissions by world region from 1850 to 2022. [4]
- (b) Suggest reasons for the trends in carbon emissions recorded for Asia and China from 1850 to 2022. [4]
- (c) Describe the distribution of mean annual global sea level change shown in Resource 8. [4]
- (d) Explain how global warming has resulted in sea level rise in the global oceans. [4]
- (e) With reference to Resource 9, explain the suitability of the proposed strategies to manage sea level rise in the South Pacific islands. [6]

Section C

Answer **two** questions

- 4** 'The greatest challenge countries face in implementing strategies to respond to climate change is economic.'
- Evaluate this statement. [13]
- 5** Evaluate the impact of contemporary climate change on sustainable urban development. [13]
- 6** 'The main issue faced by women living in the city is related to their economic well-being.'
- Evaluate this statement. [13]

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