

Raffles Institution
2025 Year 6 Preliminary Examination

Level: Year 6

H2 GEOGRAPHY

9173 Paper 2

Time: 3 hours

[illegible]

Additional Materials: Insert

READ THESE INSTRUCTIONS FIRST

Section A

Answer Question 1.

Section B

Answer Question 2.

Section C

Answer **one** question.

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

Answer every question on a fresh sheet of writing paper.

At the end of the examination, fasten all your work securely together.

SECTION A

Cluster 4 Fieldwork

A group of students from Tanglin Junior College wanted to study the needs of the elderly. They crafted the following geographical question:

Are the various needs of the elderly being adequately met?

They used a questionnaire survey to collect primary data for their fieldwork. They conducted their survey on a Sunday morning between 9am and 11.30am. They selected two sites located very close to their school to conduct their questionnaire survey. The two sites were: - (i) outside Tanglin Mall shopping centre and (ii) outside Redhill Market. At **each** site, they surveyed 25 elderly citizens.

The students devised 30 questions for the questionnaire survey – each with a simple ‘YES or NO’ response. The questionnaire survey will be printed out and clipped onto a clipboard. Each elderly respondent will be asked to complete the questionnaire on their own with a pen provided by the students.

In their data analysis, the students grouped the 30 questions under the different types of needs for the elderly. They calculated and summarised the findings on the different needs into a table.

Resources 1A and 1B show photographs of the two survey sites. Resource 2 is the questionnaire survey form showing only the first 5 questions. Resource 3 shows the collated data from their survey.

- (a) Suggest **two** ways how the geographical question can be improved. [4]
- (b) With reference to Resources 1A and 1B, explain the weaknesses of the selected sites for the fieldwork. [6]
- (c) Describe an appropriate method to sample the elderly at the two sites. [6]
- (d) With reference to Resources 1A, 1B and 2, suggest possible ethical issues the students should consider for their fieldwork. [6]
- (e) With reference to Resource 3, sketch a suitable graph that enable comparison of the two sites. [5]
- (f) The students concluded that the needs of the elderly have been met adequately. With reference to all the Resources, evaluate the validity of their conclusion. [10]
- (g) Suggest how secondary data could be used to supplement the findings for this fieldwork. [3]

SECTION B

Cluster 3 Sustainable Future and Climate Change

- 2** Resource 4 shows data on Ecological Footprint (EF) and Happiness Index for different countries. Resource 5 shows data on EF on 2 large cities in the United States. Resource 6 shows USA's total electricity consumption from 1776 to 2023. Resource 7 shows the offshore renewable energy potential (in Megawatts, MW) at the western coast of USA.
- (a)** Describe the relationship between Ecological Footprint and Happiness Index shown in Resource 4. [3]
 - (b)** With reference to Resource 5, suggest reasons for the varying levels of Ecological Footprint for the two cities in United States. [6]
 - (c)** Explain how urban reimaging may affect liveability for women. [6]
 - (d)** Compare the changing contribution of petroleum and renewables in USA's electricity consumption shown in Resource 6. [5]
 - (e)** Describe the causes of sea-level rise. [4]
 - (f)** With reference to Resources 6 and 7, explain why the USA government may not continue to invest in offshore renewable energy to mitigate climate change. [6]

SECTION C

Answer EITHER question 3 OR question 4.

- 3** Evaluate how the shift towards the service sector in high income cities may affect Sustainable Urban Development. **[20]**

- 4** 'Global cooperation is the only solution to reduce greenhouse gas emissions.'

Evaluate this statement. **[20]**