



# NANYANG JUNIOR COLLEGE

## Year 2 Preliminary Examination

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### H2 GEOGRAPHY

**9173/02**

Paper 2

17 Sept 2024

**3 hours**

Additional Materials:

Insert

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### 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.

DO **NOT** WRITE ON ANY BARCODES.

Answer Question 1 in **Section A**.

Answer Question 2 in **Section B**.

Answer **one** question in **Section C**.

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

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

Answer Questions 1 and 2 and  
**EITHER** Question 3 **OR** Question 4

### Section A

#### Cluster 4 Fieldwork

- 1 A group of 20 students wanted to investigate if the community is actively responding to climate change. They visited Tampines Town which was slated to be one of the eco-towns in Singapore, and did investigations on people's awareness and response to climate change actions in Tampines Hub.

They developed the following hypothesis: **The majority of the population in Tampines are aware of and are actively carrying out actions to mitigate climate change.**

The students went to Tampines Hub on a Saturday morning from 9am to 11 am, where the Hub is expected to be more crowded to get a bigger sample size. They went in groups of 5 all around Tampines Hub and approached any person who was willing to do their questionnaire.

They managed to survey 100 people in total, with 10 being in the age group of 51 and above and 2 of the respondents being Primary 5 students (See Resource 1) who were there on a visit to learn about the waste digester. They also took photographs of shoppers using the reverse vending machine in Tampines Hub and other eco-friendly facilities like the reusable bag station that were present in Tampines Hub.

Resource 1 shows pictures the students took of people engaged in green actions and facilities in Tampines Hub. Resource 2 shows the questionnaire survey that the students conducted. Resource 3A, 3B and 3C shows the results of the questionnaire that the student did to show their questionnaire findings.

- (a) Explain **one** strength and **one** weakness of the student's hypothesis. [4]
- (b) Describe what you think the students were trying to show in each of the photographs they took. [4]
- (c) With reference to Resource 1, describe **two** possible issues related to research ethics that can arise from this investigation and how the students can overcome them. [4]
- (d) Suggest how the students could minimise potential risks while carrying out their questionnaire survey (Resource 2) at Tampines Hub. [6]
- (e) With reference to Resources 1, 3A and 3B, explain the importance of community participation in climate change initiatives. [6]
- (f) With reference to Resources 3A, 3B and 3C, explain the strengths and limitations of the data presentation methods the students have used. [6]
- (g) Based on observations at Tampines Hub (Resource 1) and results from the questionnaire survey, the students concluded that their hypothesis is correct. Evaluate the validity of their conclusion. [10]

**Section B****Cluster 3 Sustainable Future and Climate Change**

- 2** Resource 4 shows the distribution of urban liveability of Chinese cities. Resource 5 shows the frequency of hot days in Chinese cities. Resource 6 is a photograph of a farmer using a hose to water plants near a dying chilli pepper plant at his farm in Longquan village in south-western China's Chongqing municipality on Aug 20, 2022.
- (a) Describe the distribution of urban liveability of Chinese cities as shown in Resource 4. [4]
- (b) Suggest reasons why urban liveability is very high in the selected cities shown in Resource 4. [6]
- (c) Describe the distribution of hot days in Chinese cities as shown in Resource 5. [4]
- (d) Explain how the urban liveability of cities in Central and East China may be affected by the number of hot days as shown in Resource 5. [6]
- (e) With reference to Resource 6, describe the impact of climate change on agricultural ecosystems in China. [4]
- (f) Suggest adaptation strategies that China can implement to cope with the impact of climate change on agricultural ecosystems. [6]

[Turn over

**Section C**

**Answer EITHER question 3 OR question 4.**

- 3** 'Strategies to meet the needs of the elderly living in cities are often sufficient in addressing the economic aspects only.' Evaluate this statement. [20]
- 4** Evaluate the roles of key actors in climate change response. [20]

**End of Paper**