



TANJONG KATONG SECONDARY SCHOOL
End of Year Examination 2023
Secondary 3

CANDIDATE
NAME

CLASS

INDEX NUMBER

GEOGRAPHY

2279

5 October 2023

Candidates answer on the Question Paper.

1 hour 45 minutes

Additional Materials: Insert

READ THESE INSTRUCTIONS FIRST

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

Write in dark blue or black pen.

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

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

Answer all questions.

The Insert contains additional resources referred to in the questions.

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

For Examiner's Use	
Question 1	/20
Question 2	/15
Question 3	/15
Total	/50

Answer **all** questions.

1 Cluster 1: Geography in Everyday Life

- (a) A class of students from a Singapore school wanted to test the hypothesis:

‘When Singaporeans have good knowledge of global warming, they are more willing to take action to combat global warming.’

To do this, they decided to devise a close-ended questionnaire. The draft questionnaire after one round of class discussion is shown in Fig. 1 (Insert).

- (i) The students thought that further changes can be made to improve the questionnaire.

Using Fig. 1, identify the issues with some of the questions and suggest improvement to them.

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- (ii) The students wanted to present the data collected graphically.

Describe a suitable graph they could use to show the data collected using Question 2 from the questionnaire in Fig. 1 (Insert).

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- (iii) The students decided to conduct the interview in Orchard Road, a popular shopping district in Singapore.

Explain how the students could sample visitors to collect the data needed to test the hypothesis.

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- (b) From 2021 to 2022, there have been increased disaster management efforts to educate Singaporeans on how to prevent fire hazards.

The students wanted to test the hypothesis, 'Increased education efforts from 2021 to 2022 will reduce the occurrences of fire hazards in Singapore during that period'. They obtained data from the news release of Singapore Civil Defence Force (SCDF) to aid their investigation.

Study Figs. 2 and 3 (Insert), which show the breakdown of fires in non-residential areas and top two types of fires in residential buildings.

- (i) Using Fig. 2, compare the occurrences of fire between 2021 and 2022 in non-residential buildings.

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- (ii) Using Figs. 2 and 3, evaluate how well the data supports the hypothesis.

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2 Cluster 1: Geography in Everyday Life

- (a) Study Fig. 4 (Insert), which shows the percentage of e-commerce sales in Singapore in 2015 and the projected percentage in 2025.

With reference to Fig. 4 and your own knowledge, suggest why the number of services in a town may change over time.

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- (b) Study Fig. 5 (Insert), which shows the distribution of dengue outbreak in Singapore in 2020 and Fig. 6 (Insert), which shows the districts map of Singapore.

Using Figs. 5 and 6, describe the distribution of dengue outbreak in Singapore in 2020.

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- (c) Study Fig. 7 (Insert), which shows a part of the coral reef found at the Great Barrier Reef, Australia.

With reference to Fig. 7 and your own knowledge, explain how the coral reefs may provide ecosystem services for the locals.

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- (d) Explain how individuals and organisations can work together to promote environmental stewardship of their neighbourhood.

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3 Cluster 3: Climate

- (a) Study Fig. 8 (Insert), which shows the distribution of areas experiencing a particular type of climate.

Using Fig. 8, describe the temperature that would be experienced in these areas.

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- (b) Study Fig. 9, which shows the temperature over the land and sea in a coastal area at midday.

Midday temperatures in a coastal area

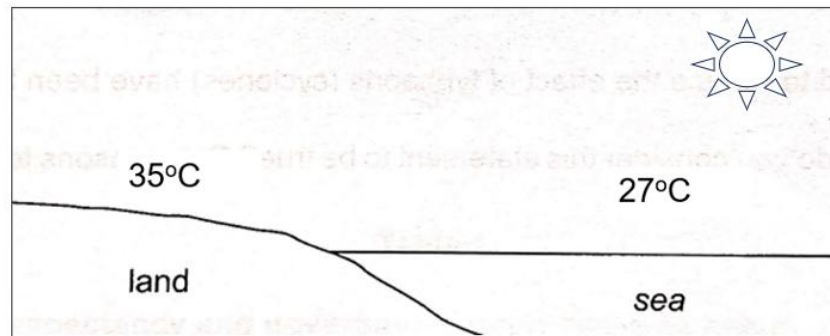


Fig. 9

Explain why a breeze may blow in the area shown in Fig. 9.

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- (c) 'The main human activity which has contributed to the enhanced greenhouse effect is agriculture.'

To what extent do you consider the statement to be true?

Give evidence to support your answer.

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[illegible]