**SINGAPORE CHINESE GIRLS'
SCHOOL   PRELIMINARY
EXAMINATION 2024 SECONDARY
FOUR
O-LE~~~~~~RAMME**

CANDIDATE NAME	

CLASS				REGISTER NUMBER		

CENTRE NUMBER					INDEX NUMBER				

HUMANITIES
Paper 2 Geography   **2260/02**

Tuesday	**20 August 2024**	**1 hour 45 minutes**

Candidates answer on the Question Paper.
Additional Materials: Insert

READ THESE INSTRUCTIONS FIRST

Write your name, class and register number on all the work you hand in.
Write in dark blue or black pen.
You may use a HB pencil for any diagrams or graphs.
Do not use staples, paper clips, glue or correction fluid.

Answer **three** questions in total:
Section A
Answer Question 1 **and** Question 2.
Section B
Answer Question 3.

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.

[Turn over

For Examiners' Use	
Question 1	/14
Question 2	/18
Question 3	/18
Total	/50

This document consists of **13** printed pages and **1** Insert.

Section A

Answer Question 1 **and** Question 2

1   Cluster 1: Geography in Everyday Life

(a)   'Forests can help to cool areas by generating rainfall'.

Identify the type of ecosystem service referred to by the statement above.

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(b)   Study Fig. 1.1, which shows the number of fire incidents in residential buildings in Singapore and their causes in 2022.

Causes of fire in residential buildings (2022)
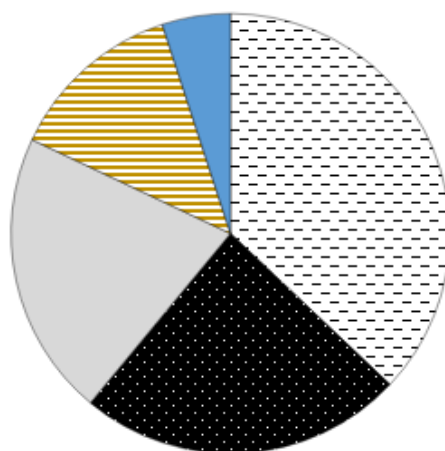
Fig. 1.1

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Source: Data from Singapore Civil Defence Force Annual Report 2022

(i) Describe the contributions of causes of household fires in Singapore in 2022.

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(ii) Explain how community resilience can be built to manage fire hazards.

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(c) A group of students in Singapore wanted to find out if living near nature areas will help to improve resident's mental wellbeing. They administered a questionnaire to 50 respondents living within 1 kilometre from nature areas and another 50 respondents who did not. The questionnaire assesses respondents' depression, anxiety and stress levels.

Study Table 1.1, which shows the number of respondents and the extent of their mental wellbeing.

Table 1.1
Number of respondents in each category

Extent of mental wellbeing	Depression		Anxiety		Stress	
	Within 1km	Beyond 1km	Within 1km	Beyond 1km	Within 1km	Beyond 1km
Normal	6	5	12	4	31	5
Mild	10	12	25	26	16	11
Moderate	14	15	9	5	1	23
Severe	12	16	0	7	2	6
Extremely Severe	8	2	4	8	0	5
Total respondents	*50*	*50*	*50*	*50*	*50*	*50*

Using Table 1.1, evaluate how well the data supports the hypothesis that living near nature areas will improve one's mental wellbeing.

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2   Cluster 2: Tourism

(a)   Study Fig. 2.1, which shows the cost of a ticket to fly to space with various private space travel companies.

Space Perspective - $125,000 for a 6-hour flight
Virgin Galactic - $450,000 for 15 minutes of weightlessness
Blue Origin - $28 million for the first flight
Axiom Space - $55 million including 10 days at an international space station

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Fig. 2.1
Source: https://www.travelandleisure.com/trip-ideas/space-astronomy/space-tourism-is-here

With reference to Fig. 2.1, explain the factors that have affected the demand for space tourism.

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(b)   Describe the characteristics of tourists who are likely to visit tourist destinations that are at its early stages of tourism development.

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(c)   Study Fig. 2.2, which shows a news article headline regarding water shortage in Bali, Indonesia.

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Tourists to blame for water shortage across Bali that is threatening the lives of almost 50 million people

- **Bali is running out of freshwater, putting food security and quality of life at risk**
- **As growing tourism industry booms, the water shortage is tipped to get worse**
- **Also contributing to the crisis is Bali's wet season, which is two months overdue**

By KYLIE STEVENS FOR DAILY MAIL AUSTRALIA
PUBLISHED: 22:26 BST, 5 December 2019 | **UPDATED:** 22:26 BST, 5 December 2019

Fig. 2.2
Source:
https://www.dailymail.co.uk/news/article-7761323/Tourists-blamed-water-shortage-Bali-threatening-lives-50-million.html

With reference to Fig. 2.2, describe how tourism in Bali has led to negative impacts on locals.

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(d) 'Governments are most responsible for ensuring sustainable tourism at tourist destinations.'

To what extent do you agree with this statement? Explain your answer.

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Section B

Answer Question 3.

3   Cluster 3: Climate

(a)   Study Table 3.1, which shows the mean monthly temperatures (°C) taken from a weather station in Antalya, Turkey.

Table 3.1
Mean monthly temperatures of Antalya (1991 to 2020)

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean temp. (°C)	9.8	10.8	13.1	16.4	20.9	25.7	28.9	29.0	25.6	20.9	15.3	11.4

Source: Turkish State Meteorological Service

(i)   Using Table 3.1, describe the temperature characteristics of Antalya.

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(ii)   Fig. 3.1 (Insert) shows the topographic structure of Antalya. The weather station is located at 37°N, 31°E.

Using Fig. 3.1, state the range of altitude (to the nearest whole number) of this weather station. Explain why the temperatures recorded at weather stations along the same line of latitude may vary.

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(b) Explain the formation of relief rain.

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(c) Study Fig. 3.2, which shows an example of a food chain in the ocean.

Fig. 3.2
Source: https://www.sciencefacts.net/ocean-food-chain.html
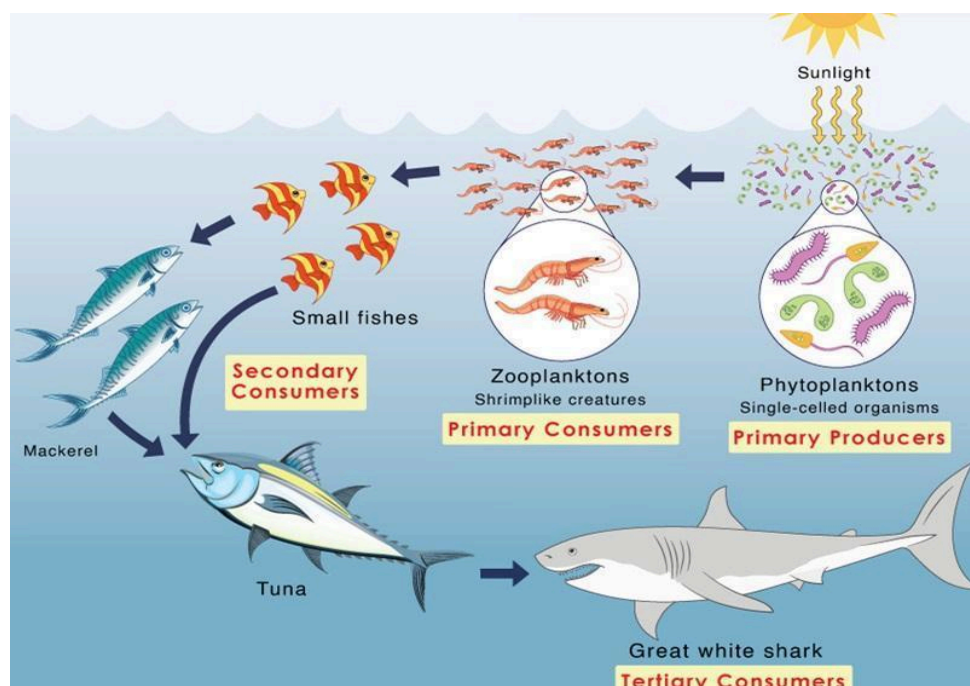
Using Fig. 3.2, explain the impact of climate change on ocean circulation and how it affects aquatic ecosystems.

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(d)   Study Table 3.2, which are examples of climate action.

Complete the table to classify the various examples of climate action.

Table 3.2

Type of strategy		
Climate action	1. Afforestation	1. Constructing polders
	2. Using ground coffee as fertilisers for plants	2. Investing in high-tech farming
	3. Making the switch from conventional to electric cars	3. Setting up the Centre for Climate Research Singapore

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[Total: 18]

End of paper

Additional page

If you use the following lined page to complete the answer(s) to any question(s), the question number(s) must be clearly shown.

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