NAN HUA HIGH SCHOOL
Preliminary Examination 2025

CANDIDATE NAME

CENTRE NUMBER | CLASS | INDEX NUMBER

GEOGRAPHY

2279/01

Paper 1

27 August 2025

1 hour 45 minutes

Candidates answer on the Question Paper.
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/tape.

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.

The total mark for this paper is **50**.

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Answer **all** questions.

1 Cluster 1: Geography in Everyday Life

Marina Bay Sands in Singapore is popular with tourists for its iconic architecture, and world class shopping and dining amenities. A group of students wanted to investigate the research question, 'Which area in Marina Bay Sands is the most popular with visitors?'
Fig. 1.1 (Insert) shows the map of Marina Bay Sands where the students conducted their investigation.

(a) Describe two factors that the students should consider when deciding on the fieldwork locations in Marina Bay Sands.

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(b) The students wanted to design a closed ended questionnaire to answer their research question.

With reference to Fig. 1.1 (Insert), explain how the students could collect the data needed to answer their research question.

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(c) To further support their investigation, the students also counted the number of visitors to Marina Bay Sands.
They positioned themselves at several locations: at the four Bayfront Mass Rapid Transit (MRT) entrances that connect to Marina Bay Sands and the three Marina Bay Sands taxi stands on a weekday to conduct the count of visitors. They used a tally counter to count the visitors. Table 1.1 shows a tabulation of their data.

Time / location	**No. of visitors at the entrances of Bayfront MRT station**	**No. of visitors at Marina Bay Sands Shoppes taxi stands**
10.00am - 11.00am	250	80
11.00am - 12.00pm	350	150
12.00pm - 1.00pm	300	180
1.00pm - 2.00pm	400	130

Table 1.1

(i) From Table 1, identify the period of day which is most frequented by visitors.

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(ii) Suggest how the students could present the data in Table 1.1.

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(iii) Evaluate the reliability of the data collected by the students in the visitors' count.

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(d) As an extension of their learning, the students thought of investigating the hypothesis, 'The ArtScience Museum is the most popular in the Marina Bay Sands area.' with locals. They thought of using mental maps to collect data.

Describe how the students could use mental maps to prove this hypothesis.

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[Total: 20]

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2 Cluster 2: Tourism

(a) Study Figs. 2.1 and 2.2 which show some tourism statistics of New Zealand from 2013 to 2016.

International Visitor Arrivals for 2013 - 2016							
	2013	2014	2015	2016	2014	2015	2016
					Annual Percentage Change (%)		
Oceania	1,311,872	1,359,120	1,415,588	1,514,080	3.6	4.2	6.9
Asia	528,624	575,200	681,568	814,640	8.8	18.5	19.5
Americas	264,576	285,664	307,024	348,192	8.0	7.5	13.4
Other	88,880	98,048	88, 624	89,472	10.3	-9.6	1.0
Total	2,611,377	2,752,257	2,947,901	3,255,463	5.4	7.1	10.4

Fig. 2.1

Total Tourism Expenditure by tourists				
Year	Total Tourism Expenditure $ (million)	Annual percentage change (%)	Gross Domestic Product $ (million)	International tourism as a percentage of total exports (%)
2013	26 947	1.3	62 766	15.8
2014	28 039	4.1	67 002	15.4
2015	30 935	10.3	67 514	17.9
2016	34 699	12.2	70 144	20.7

Fig. 2.2

(i) Using Fig. 2.1, describe the trend of visitor arrivals to New Zealand from 2013 to 2016.

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(ii) With reference to Figs. 2.1 and 2.2, explain how tourism is both beneficial and risky to New Zealand's economy.

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(b) Explain how expansion of public transport services and infrastructure has contributed to the growth of tourism.

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(c) Study Fig. 2.3 (Insert), which shows a beach next to the Aegean Sea in Greece. The beach is popular among the locals and visited by many tourists every year.

With reference to Fig. 2.3, suggest how tourism could damage the local environment.

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3 Cluster 3: Climate

(a) Study Fig. 3.1 (Insert), which shows global average surface temperature, global average sea level and Northern Hemisphere snow cover from 1850 to 2000.

Using Fig. 3.1, compare the relationship between global average surface temperature, global average sea level and northern hemisphere snow cover.

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(b) Explain why temperature differs between tropical equatorial climate and cool temperate climate.

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(c) 'The largest cause of climate change is deforestation.' How far do you agree with this statement? Explain your answer.

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Question 1(b) https://www.marinabaysands.com/museum/visit.html#zoWuq7jsSkoR5LK3.97
Question 2(a) http://www.tdc.co.tt/index.php
Question 2(c) https://news.cgtn.com/news/3d3d414e7841444e78457a6333566d54/index.html
Question 3(a) https://www.researchgate.net/figure/Changes-in-global-average-surface-temperature-sea-level-and-Northern-Hemisphere-snow_fig1_326224054

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NAN HUA HIGH SCHOOL

PRELIMINARY EXAMINATION 2025

GEOGRAPHY
Paper 1

2279/01
27 August 2025

INSERT

1 hour 45 minutes

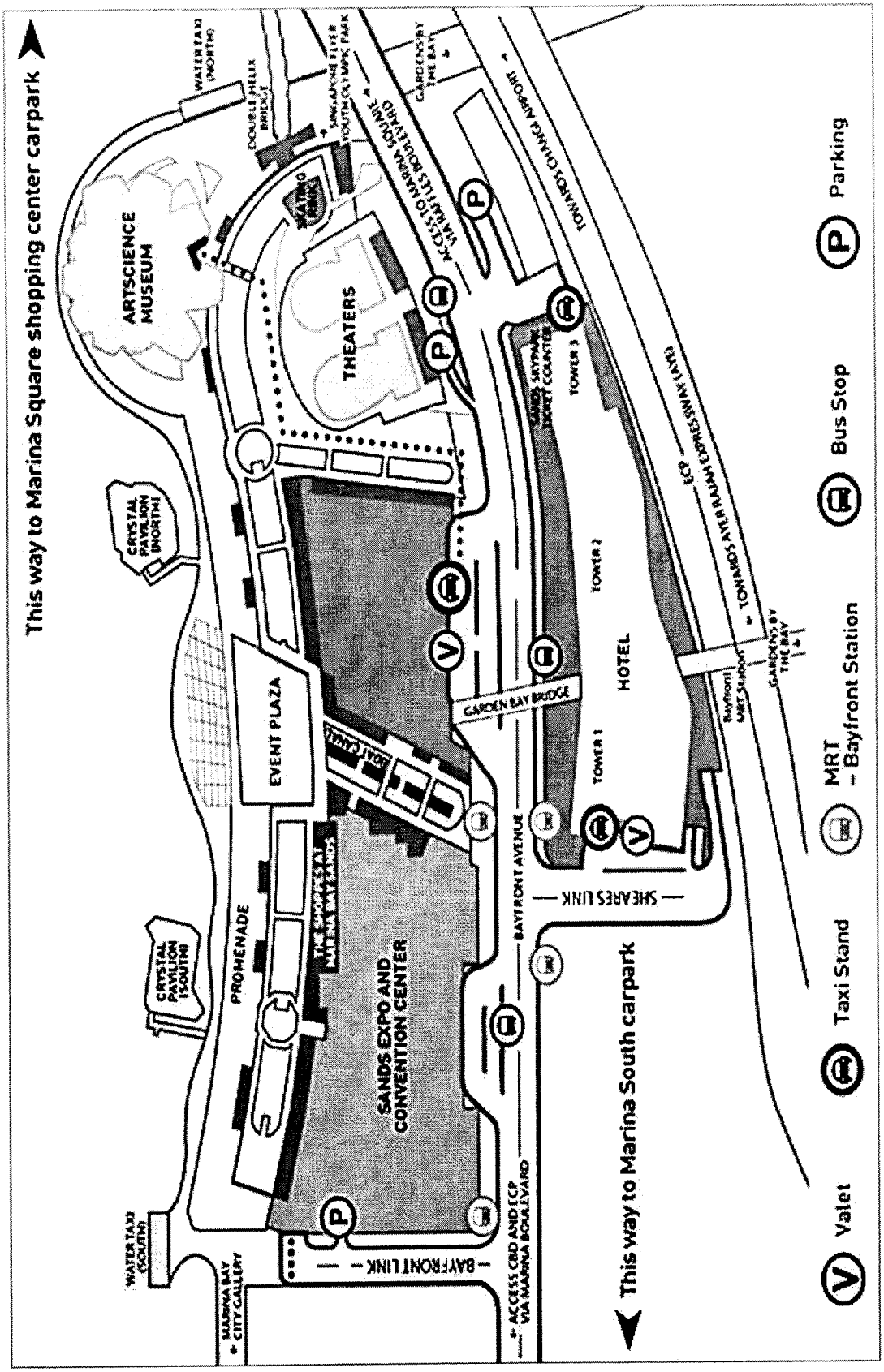
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Fig. 1 for Questions 1(a) and 1(b)

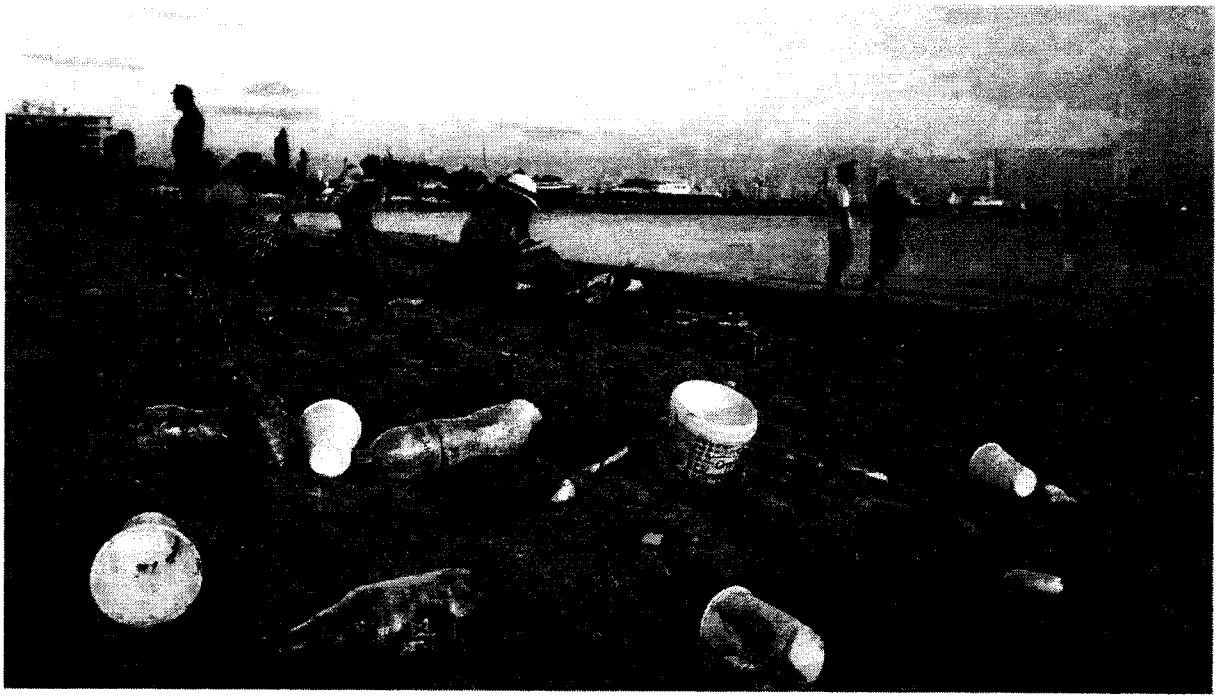
Map of Marina Bay Sands, Singapore



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Fig. 4 for Question 2(c)

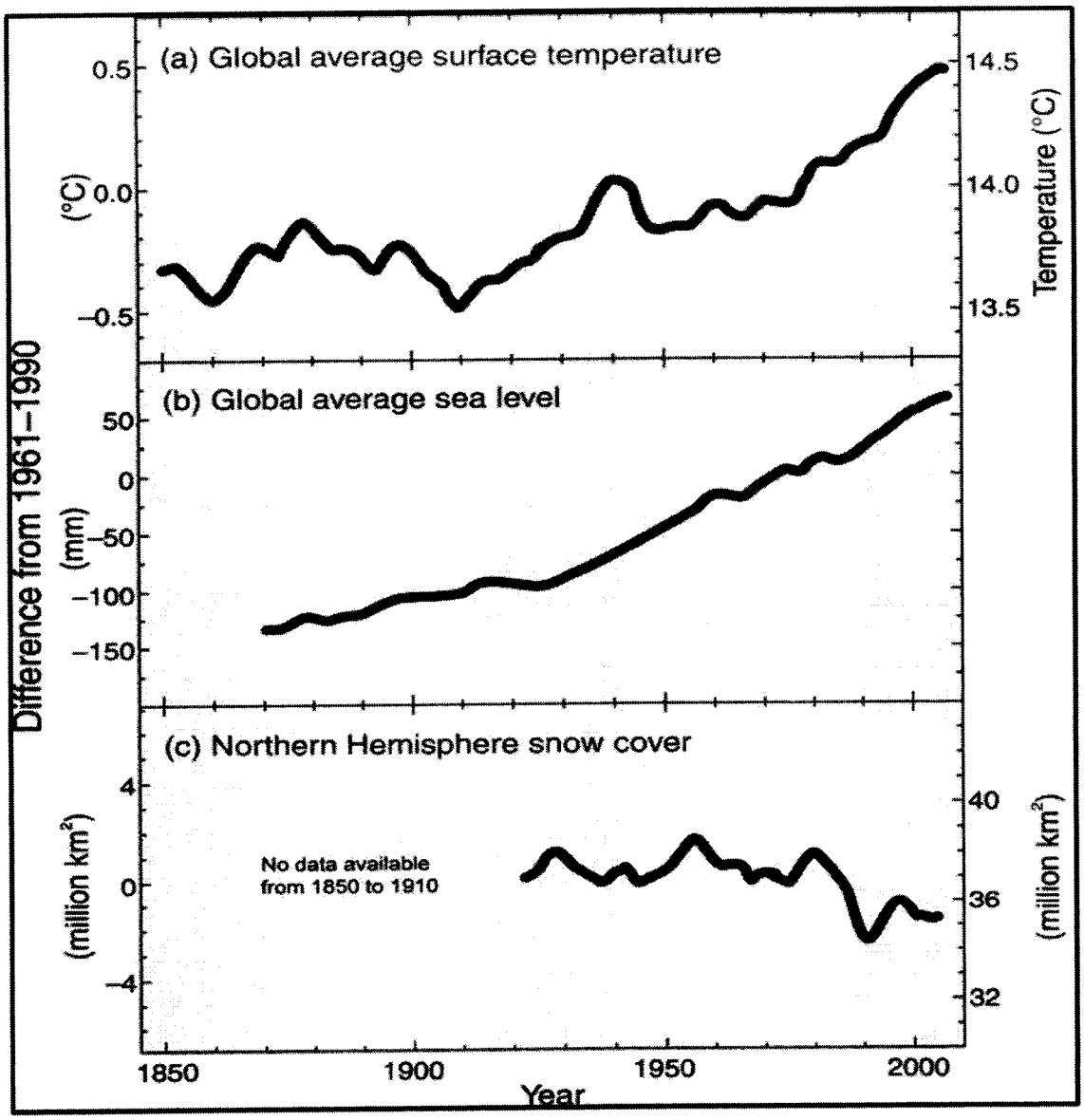
A Beach next to the Aegean Sea in Greece



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Fig. 5 for Question 3(a)

A graph showing global average surface temperature, global average sea level and northern hemisphere snow cover from 1850 to 2000



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Question 1(b) https://www.marinabaysands.com/museum/visit.html#zoWuq7jsSkoR5LK3.97
Question 2(c) https://news.cgtn.com/news/3d3d414e7841444e78457a6333566d54/index.html
Question 3(a) https://www.researchgate.net/figure/Changes-in-global-average-surface-temperature-sea-level-and-Northern-Hemisphere-snow_fig1_326224054

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NAN HUA HIGH SCHOOL
Preliminary Examination

CANDIDATE NAME

CENTRE NUMBER | CLASS | INDEX NUMBER

GEOGRAPHY

2279/02

Paper 2

29 August 2025

1 hour 45 minutes

Candidates answer on the Question Paper.

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1 Cluster 1: Geography in Everyday Life

(a) Study Fig. 1.1 (Insert), which shows a map of Bidadari Park with a 5.2 kilometres network of trails running through greenery. It also features a 1.8-hectare lake, which serves both recreational and flood-management purposes.

Using Fig.1.1, explain how Bidadari Park provides regulating and cultural ecosystem services.

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(b) Study Figs. 1.2 and 1.3 (Insert), which show how parts of Commonwealth Drive will be changed as part of the redevelopment for Tanglin Halt.

Tanglin Halt, located in Queenstown, was among Singapore's earliest Housing and Development Board (HDB) estates, established in the 1960s. In 2014, it was announced that the estate would undergo redevelopment under the Selective En-bloc Redevelopment Scheme (SERS), aiming to rejuvenate ageing housing stock and optimise land use.

Residents will be relocated to another housing estate as demolition takes place. Part of Commonwealth Drive will also be realigned, and the existing road will be turned into a pedestrian-friendly zone with cycling lanes and footpaths.

Using Figs. 1.2 and 1.3, evaluate how the redevelopment for Tanglin Halt affects residents' quality of life.

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(c) Explain how environmental stewardship can be practised.

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2. Cluster 4: Tectonics

(a) Using an example, explain what happens at transform plate boundaries.

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(b) Study Figure 2.1 (Insert), which shows a map of shake intensity from the earthquake and aftershocks that happened in Turkey, 2023.

Using Fig. 2.1, describe the distribution of shaking in Turkey.

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(c) Study Fig. 2.2 (Insert), which shows the comparison of the earthquake in Turkey in 2023 to an earthquake in Peru in 2021.

With reference to Fig. 2.2, compare the factors that affected the impact of the earthquakes in the two countries.

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(d) Explain how disaster management strategies could help people of the affected areas after a volcanic eruption.

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3. Cluster 5: Singapore

(a) Describe two challenges that Singapore might face due to climate change.

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(b) Study Fig. 3.1 (Insert), which shows information on the proposed Long Island project at East Coast to help Singapore manage climate change.

Using Fig. 3.1, explain how the proposed Long Island project will help Singapore manage the threat of climate change.

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(c) Study Fig. 3.2 (Insert), which shows Singapore's birth rate and proportion of population aged 65 years old and above from 2000 to 2025.

Describe the trend of Singapore's birth rate and proportion of population aged 65 years old and above.

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(d) "Building Singapore's economic resilience is more important than building its social resilience."
How far do you agree with this statement? Explain your answer.

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Question 1	Fig. 1.1	https://www.channelnewsasia.com/singapore/bidadari-park-opens-hundred-acre-wood-lake-trails-playground-bird-watching-4581141
Question 1	Fig. 1.2	https://www.channelnewsasia.com/singapore/tanglin-halt-rejuvenation-integrated-development-new-flats-hawker-centre-market-polyclinic-3857126
Question 2	Fig. 2.1	https://edition.cnn.com/2023/02/07/middleeast/earthquake-turkey-syria-why-deadly-intl
Question 3	Fig. 3.1	https://www.sg101.gov.sg/resources/connexionsg/environment-Climate-Resilient-Infrastructure/

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NAN HUA HIGH SCHOOL
Preliminary Examination

GEOGRAPHY

2279/02

Paper 2

29 August 2025

1 hour 45 minutes

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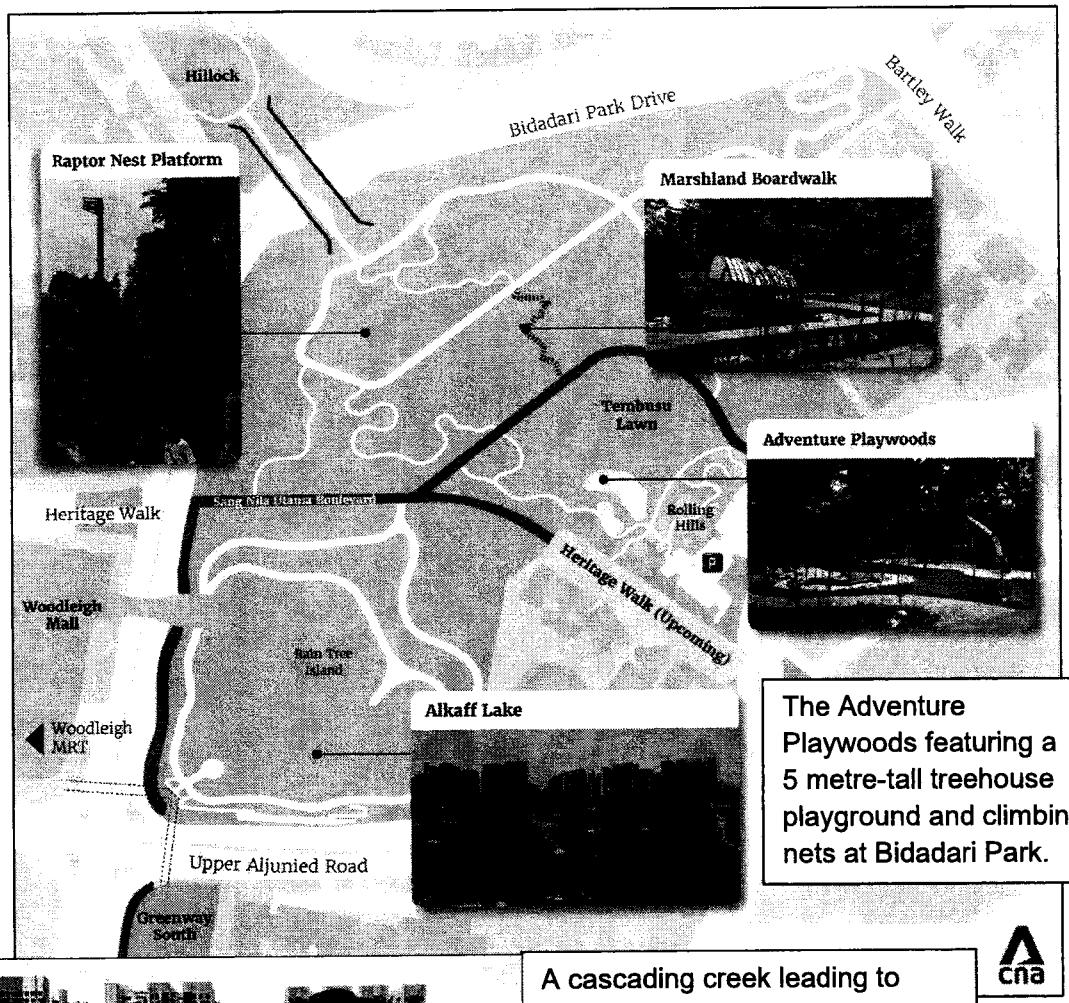
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Fig. 1.1 for Question 1

Map of Bidadari Park and its features



The Adventure Playwoods featuring a 5 metre-tall treehouse playground and climbing nets at Bidadari Park.



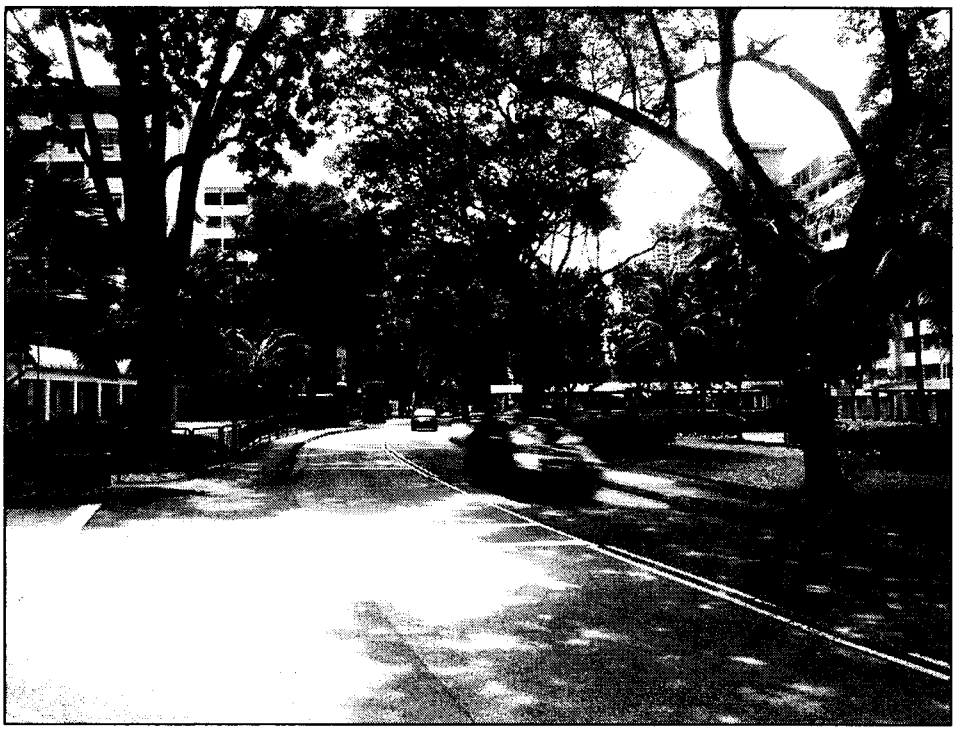
A cascading creek leading to Alkaff Lake directs excess rainwater from the surrounding areas into the lake.

This footpath at Alkaff Lake may be flooded during intense rainfall and when water levels rise to 4 metres.

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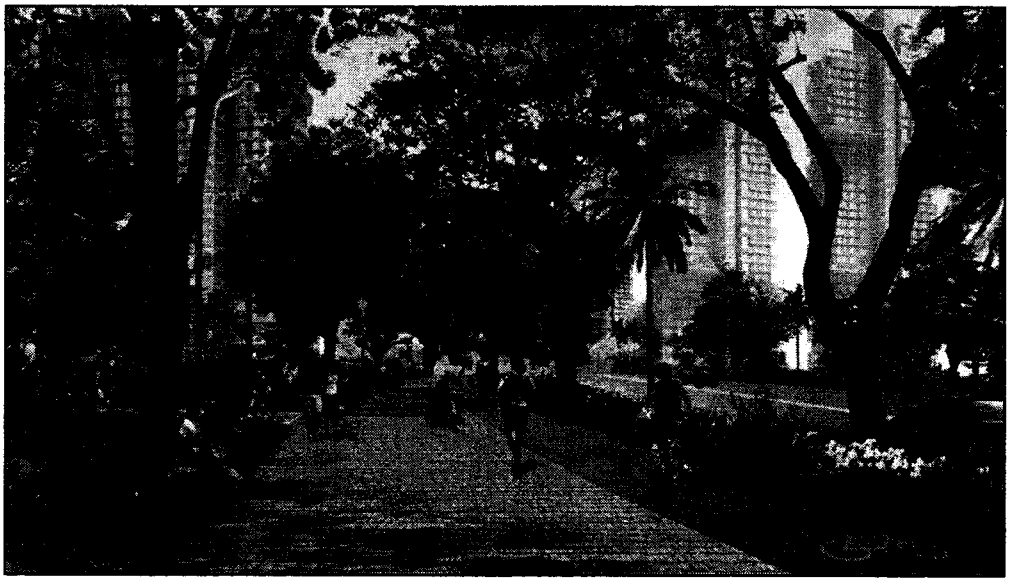
Figs. 1.2 and 1.3 for Question 1

Changes to Commonwealth Drive as part of redevelopment of Tanglin Halt



Existing Commonwealth Drive. (Photo: HDB)

Fig. 1.3 for Question 1

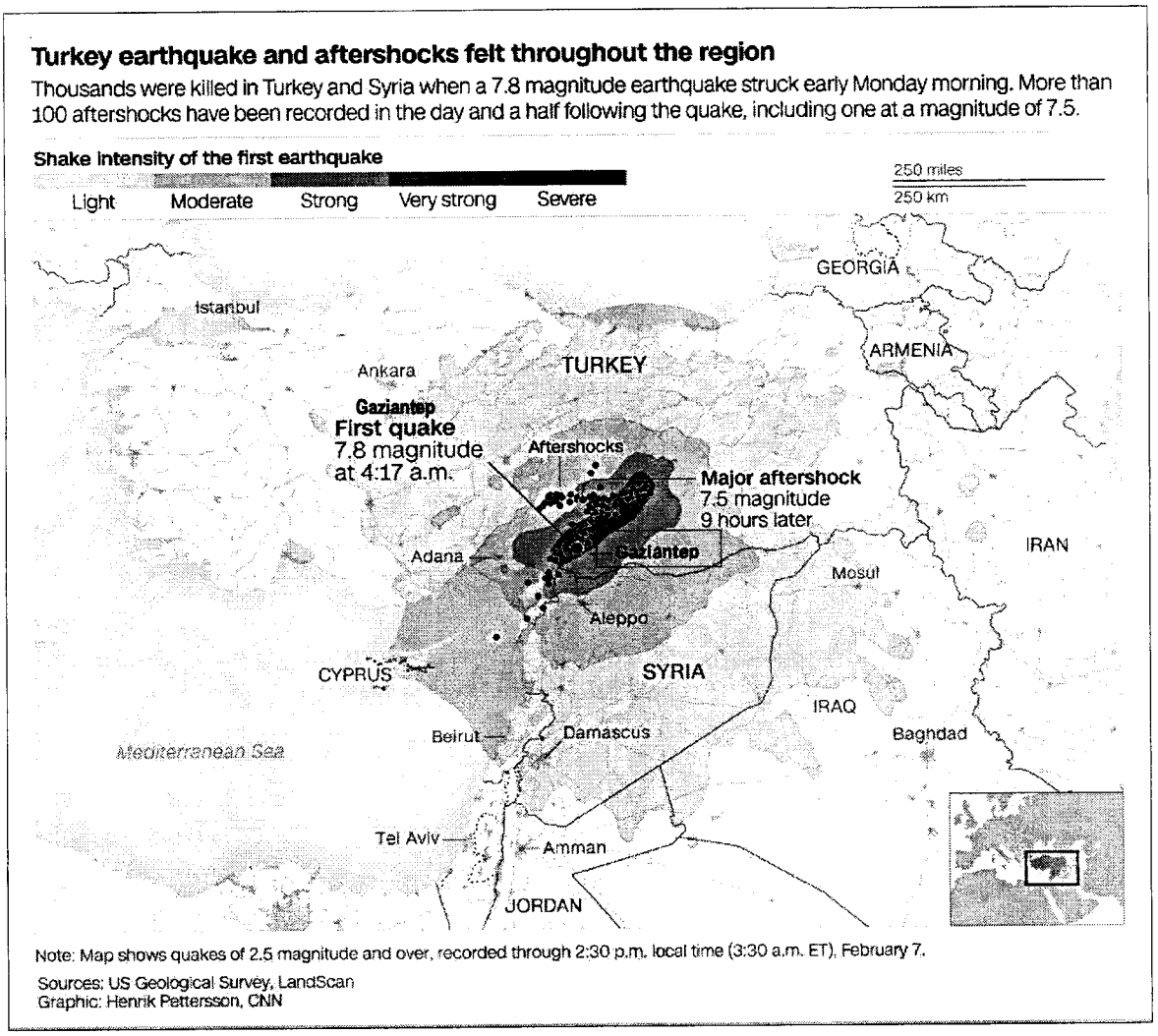


Artist's impression of dedicated cycling paths and pedestrian footpaths between Commonwealth MRT Station and the Rail Corridor. (Image: HDB)

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Fig. 2.1 for Question 2

A map showing the shake intensity of the earthquake and the aftershocks that happened in Turkey in 20230



Legend
- Aftershocks

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Fig. 2.2 for Question 2

Comparison between Turkey earthquake in 2023 and Peru earthquake in 2021

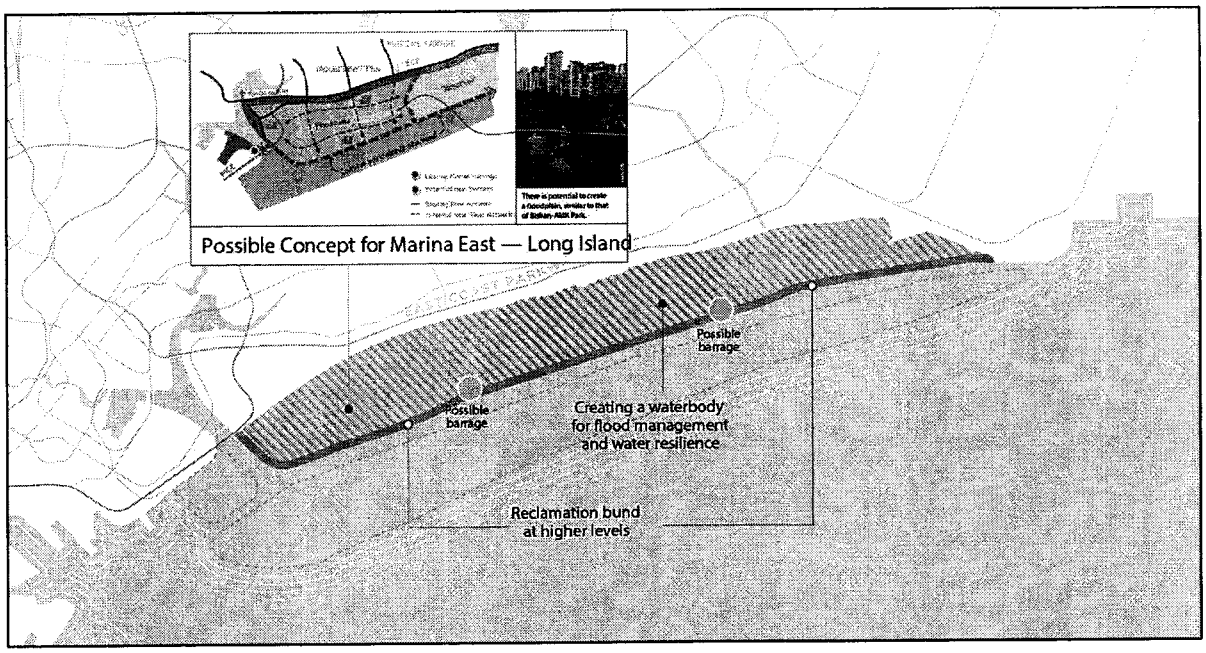
Feature	2023 Turkey-Syria Earthquake	2021 Peru Earthquake
Magnitude on the Richter scale	7.8 Aftershock at 7.5	7.5
Depth of Focus	17.9 km	112 km
Location	High population density	Sparse population density
Geology	Soft sediments, many unreinforced buildings	Dense bedrock, forested
Damage Level	Thousands of buildings collapsed	Some structural cracks on buildings, few collapses
Casualties	Over 50,000 dead, 100,000+ injured	1 dead, ~100 injured
Infrastructure Impact	Massive urban destruction, road and bridge collapse	Isolated damage in towns, some road disruptions

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Fig. 3.1 for Question 3

Information on the proposed Long Island project at East Coast to help Singapore manage climate change

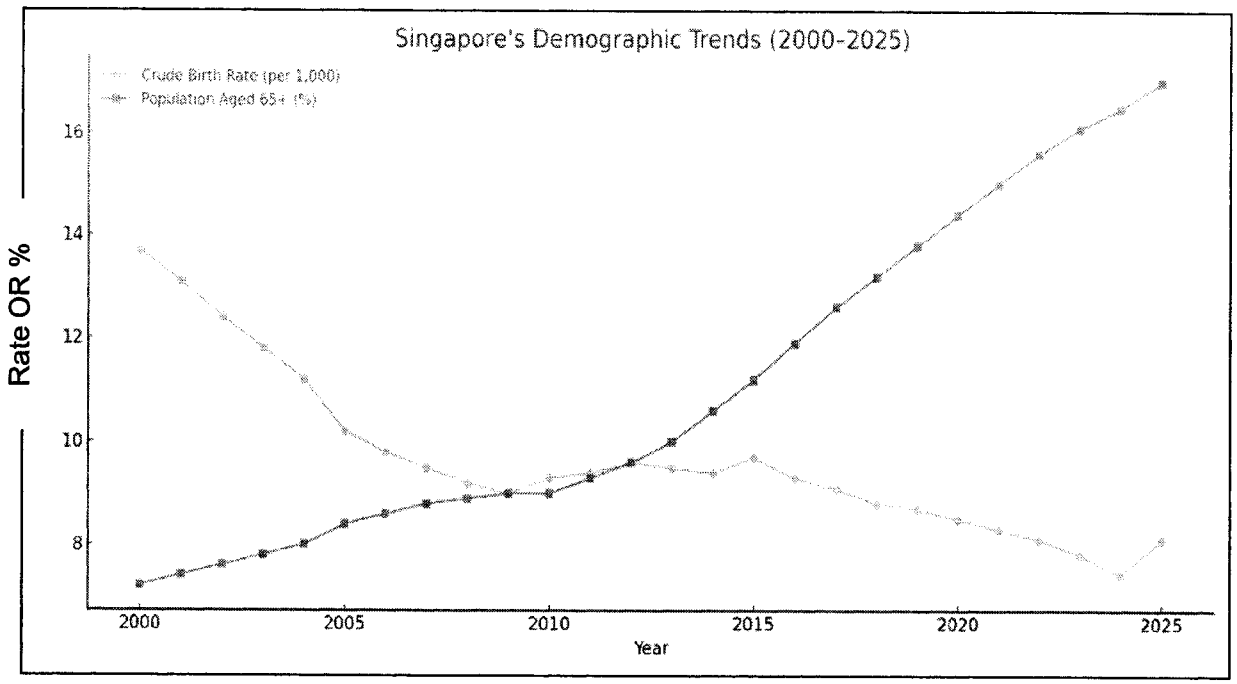
The 'Long Island' offers an integrated solution that will meet multiple national needs. The project entails reclaiming about 800 hectares of land off the East Coast, potentially in the form of 'islands', to protect the low-lying area from sea level rise and strengthen Singapore's flood resilience, enhance our water resilience with a new reservoir, and create additional land to meet future development needs.



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Fig. 3.2 for Question 3

Singapore's birth rate and proportion of aged population of 65 years old and above



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