

Class:	Register No:	Name:
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CRESCENT GIRLS' SCHOOL
SECONDARY FOUR
PRELIMINARY EXAMINATION 2025

GEOGRAPHY

2279/01

Paper 1

26 August 2025

1 hour 45 minutes

Candidates answer on the Question Paper.

Additional Materials: Insert

READ THESE INSTRUCTIONS FIRST

Write your name, register number and class in the spaces provided at the top of this page.

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.

Candidates should support their answers with the use of relevant examples.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

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

The total number of marks for this examination is 50.

1 Cluster 1: Geography in Everyday Life

During their internship with the Singapore Tourism Board (STB), a group of students were tasked to investigate the benefits and costs of Singapore hosting the Formula 1 (F1) race annually.

Using information that they found online, the students came up with a simplified map of the area where the race was held, Fig. 1.1 [Insert].

- (a) (i) Identify the type of data that students referenced, to come up with Fig. 1.1.

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..... [1]

- (ii) The students were interested to find out the original land use of the area when the race was not held to do a comparison of land-use.

Suggest **one** source of data that the students could find this information from.

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..... [1]

- (b) The students understood that one of the drawbacks of the race was the diversion of traffic and its consequences for all affected roads. Fig. 1.2 [Insert] show parts of the race circuit and hence the affected roads where traffic would be diverted from Friday to Sunday of the race weekend.

As such, the students sought to find out the typical traffic count along St. Andrew's Road, one of the roads that would be affected. The students collected the data on a Sunday evening, between the timings of 5.00pm to 10.00pm at the location marked X.

Fig. 1.3 below shows the data collected.

Time	Number of vehicles
5pm	1100
6pm	700
7pm	1200
8pm	1300
9pm	800
10pm	700

Fig. 1.3

- (i) Using Fig. 1.3, complete the graph in Fig. 1.4 to indicate the number of vehicles that were travelling along St. Andrew's Road during the study duration. [3]

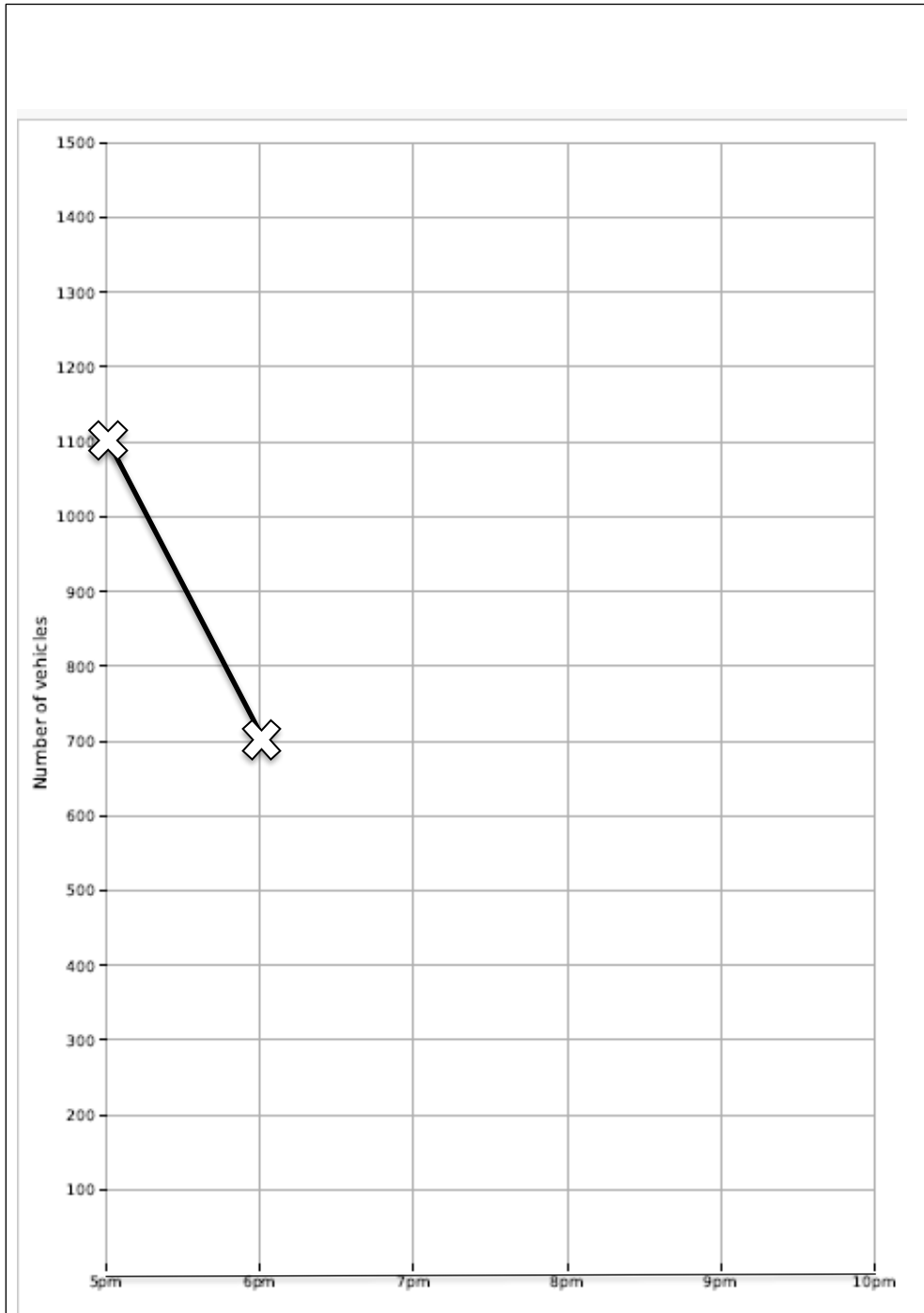


Fig. 1.4

- (ii) Evaluate the reliability of the data collected by the students.

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..... [2]

- (iii) Suggest **two** improvements that could be made to the data collection process.

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..... [2]

- (c) The students understood that a key benefit from the holding of the F1 race was the increase in tourism expenditure when tourists travelled to Singapore to watch the event.

Using Fig. 1.5 below, the students decided to conduct interviews with tourists to investigate the hypothesis “**During the F1 race period, tourists travel to Singapore to watch the race.**”

Questionnaire	
1. What is your age?	
a. 0 – 20	
b. 21 – 40	
c. 41 – 60	
d. > 60	
2. What is your gender?	
a. Male / Female	
3. Did you travel to Singapore to specially attend the Formula 1 race?	
a. Yes / No	
4. Are you staying in Singapore for more than 5 days?	
a. Yes / No	
5. Will you be attending any F1-related events or activities during your stay?	
a. Yes / No	

Fig. 1.5

Using Fig. 1.5, evaluate the usefulness of the questionnaire in helping the students determine if the hypothesis is valid.

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.....[4]

- (d)** The students then discussed among themselves about the sampling method and decided that they would use convenience sampling (a form of non-probability sampling) to run a pilot test of the interviews.

- (i)** Explain why the students decided to use a non-probability sampling method instead of a probability sampling method.

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- (ii) Using Fig. 1.2 [Insert], describe how the students can go about conducting the interviews using convenience sampling.

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.....[3]

- (iii) Identify **two** limitations of the students' choice of sampling method.

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.....[2]

[Total: 20]

Cluster 2: Tourism

- (a)** Study Figs. 2.1 and 2.2 (Insert), which show the annual carbon dioxide (CO₂) emissions from the aviation industry in 2013 and 2024 respectively.

- (i) Using Figs. 2.1 and 2.2, compare the annual carbon dioxide emissions from 2013 to 2024.

.....[3]

- (ii)** Explain why this change might have occurred.

.....[3]

- (b)** Study Fig. 2.3 [Insert], which shows ecotourism occurring in the Maasai Mara Nature Reserve in Kenya, Africa.

With reference to Fig. 2.3, explain how ecotourism achieves sustainable tourism development.

.....[3]

- (c)** Study Fig. 2.4 (Insert), which shows a scene on Maya Beach, Thailand, after tourists have left the popular tourist attraction.

Using Fig. 2.4, explain how tourism can result in negative environmental impacts.

.....[3]

- (d) Explain how tourism development can result in an economic leakage.

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[Total: 15]

3 Cluster 3: Climate

- (a) Figs. 3.1 and Fig. 3.2 (Insert) show climographs of two locations, Mexico City and Cancun respectively. Both cities are located at different altitudes in Mexico with Mexico City having an altitude of 2,240m above sea level and Cancun at sea level.

Using Figs. 3.1 and 3.2, explain how altitude can impact the climate of both cities.

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- (b) Explain how adaptation strategies can be used to build a community's resilience to climate change.

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- (c)** Study Fig. 3.3 (Insert), which shows the damage caused by wildfires in 2024, a direct impact of how climate change affects human systems.

“The direct impacts of climate change on human systems outweigh the indirect impacts due to the geographically evenness of regions.”

With reference to Fig. 3.3, to what extent do you consider this statement to be true? Explain your answer.

[illegible]

[illegible]

[illegible]

Question 1	Fig. 1.1	© original source
	Fig. 1.2	© https://go.gov.sg/s4cgprelimfig1-2
	Fig. 2.1	© https://go.gov.sg/s4cgprelimfig2
Question 2	Fig. 2.2	© https://go.gov.sg/s4cgprelimfig2
	Fig. 2.3	© https://go.gov.sg/s4cgprelimfig2-3
	Fig. 2.4	© https://go.gov.sg/s4cgprelimfig2-4
Question 3	Fig. 3.1	© original source
	Fig. 3.2	© original source
	Fig. 3.3	© https://go.gov.sg/s4cgprelimfig3-3

