



CONVENT OF THE HOLY INFANT JESUS SECONDARY
Secondary 3 Express
End-of-Year Examination 2023

CANDIDATE
NAME

CLASS

3/

REGISTER
NUMBER

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GEOGRAPHY

2279/01

Paper 1

29 September 2023

Candidates answer on the Question and Answer Booklet.

1 hour 45 minutes

Additional Materials: Insert

READ THESE INSTRUCTIONS FIRST

Write your name, class and register number in the spaces provided on the work you hand in.

Write in dark blue or black ink on both sides of the paper.

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

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

Write all answers on the Question and Answer Booklet.

The Question and Answer Booklet has been split into three parts. The number of pages for each part are as follows:

- Part 1 – 5 printed pages and 1 blank page (pg 1 to 6)
- Part 2 – 2 printed pages (pg 7 to 8)
- Part 3 – 3 printed pages and 1 additional page (pg 9 to 12)

Write all answers on the Question and Answer Booklet.

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

Diagrams should be drawn whenever they serve to illustrate an answer.

The Insert contains Fig. 2 for Question 1, Figs. 3, 4 and 5 for Question 2, and Fig. 7 for Question 3.

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

1 Geographical Methods

- (a) A group of students wanted to investigate the quality of shop and service provision at ION Orchard in Singapore. ION Orchard is a premium shopping mall that brings together brands across fashion, food and lifestyle at Singapore's most popular shopping district, Orchard Road. Fig. 1 shows the questionnaire survey designed by the students.

Geographical Fieldwork Questionnaire		
<p>1. Which continent are you from?</p> <div style="margin-left: 20px;"> <input type="checkbox"/> Asia <input type="checkbox"/> Europe <input type="checkbox"/> North America <input type="checkbox"/> South America <input type="checkbox"/> Australia & Oceania <input type="checkbox"/> Africa </div>		
<p>2. How often do you visit ION Orchard?</p> <div style="margin-left: 20px;"> <input type="checkbox"/> Every day <input type="checkbox"/> Every two or three days <input type="checkbox"/> Once a week <input type="checkbox"/> Once a month <input type="checkbox"/> Rarely </div>		
<p>3. On a scale of 1 – 3, how would you rate the shop and service provision at ION Orchard? (1 – very bad, 3 – excellent)</p> <div style="margin-left: 100px; display: flex; justify-content: space-around; width: 80%;"> <div style="text-align: center;">1 O</div> <div style="text-align: center;">2 O</div> <div style="text-align: center;">3 O</div> </div>		
<p>4. What is/are the reason(s) for visiting ION Orchard today?</p> <div style="margin-left: 20px;"> <input type="checkbox"/> Fashion and fast food <input type="checkbox"/> Electronics <input type="checkbox"/> Restaurants <input type="checkbox"/> Café <input type="checkbox"/> Beauty and wellness services <input type="checkbox"/> Singapore Airlines service centre <input type="checkbox"/> Others: _____ </div>		
<p>5. How would you describe your experience at ION Orchard?</p> <div style="margin-left: 20px; border: 1px solid black; height: 100px; width: 650px;"></div>		

Fig. 1

- (i) Suggest considerations the students should take to ensure that the data collected is reliable.

[3]

- (ii) Describe the limitations of the questionnaire shown in Fig.1 in addressing the aim of the investigation.

[3]

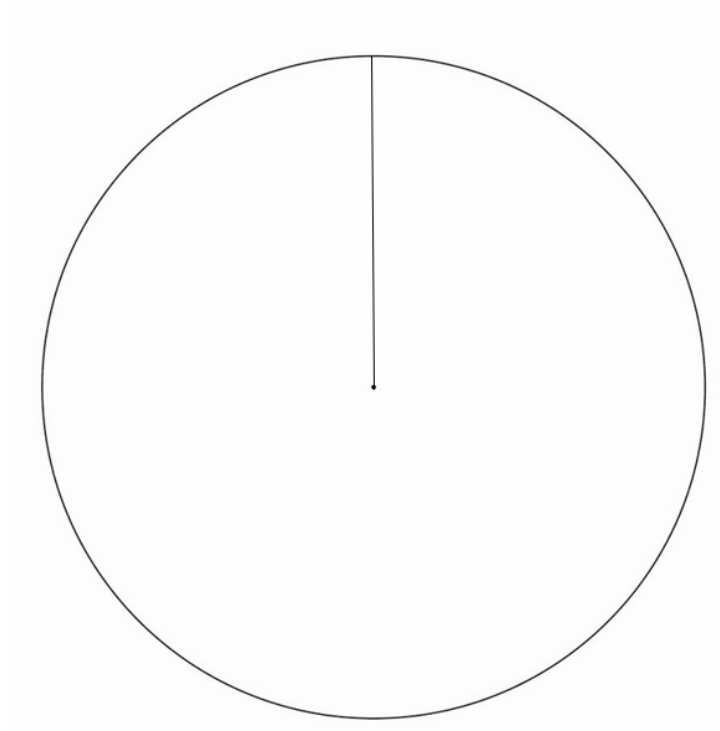
- (b) Study Table 1, which shows the results of Question 3 in the questionnaire.

Number of responses for Question 3

Table 1

Rating	No. of responses
1	7
2	24
3	119

- (i) Using information from Table 1, draw a pie chart to show the rating of shop and service provision at ION Orchard.



[3]

- (ii) The teacher advised the students to use a word cloud to represent the results for Question 5 in Fig. 1.

State an advantage of using a word cloud to represent the results for Question 5 in Fig. 1.

[1]

- (c) The students decide to extend their fieldwork by investigating the average daily temperature of Orchard Road and the number of visitors at two shopping malls, ION Orchard and 313@Somerset along Orchard Road.

They wanted to test the hypothesis 'There are more visitors at both shopping malls when the average daily temperature increases.'

They collected primary data for average daily temperature and visitors at both shopping malls for a week and presented the results in Fig. 2 (Insert).

- (i) Describe the fieldwork method the students could use to collect and record the data for the number of visitors in Fig. 2.

[4]

- (ii) Using Fig. 2, evaluate how well the data supports the students' hypothesis.

[6]

[Total: 20 marks]

[END OF PART 1]

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This part consists of **2** printed pages.

2 Thinking Geographically and Sustainable Development

- (a) Study Fig. 3 (Insert), which is an excerpt from an article about a fire that broke out in a shophouse in Geylang, July 2023.

Using Fig. 3, suggest how people may be impacted by the outbreak of fires in residential areas.

[4]

- (b) Study Fig. 4 (Insert), which shows the number of accidents resulting in injuries and the number of injured persons in Singapore between 2018 to 2022.

Using Fig. 4, describe the relationship between the number of accidents resulting in injuries and the number of injured persons in Singapore from 2018 to 2022.

[3]

- (c) Study Fig.5 (Insert), which shows a map depicting a section of Iceland's capital city, Reykjavik.

With the aid of Fig. 5, describe the spatial patterns shown and account for one set of spatial associations observed in the city.

[4]

- (d) Describe the characteristics of cultural and supporting ecosystem services and the benefits they bring.

[4]

[Total: 15 marks]

[END OF PART 2]



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This part consists of **3** printed pages and **1** additional page.

3 Tectonics

- (a) Study Fig. 6, which shows the cross-section of the Earth's crust and mantle.

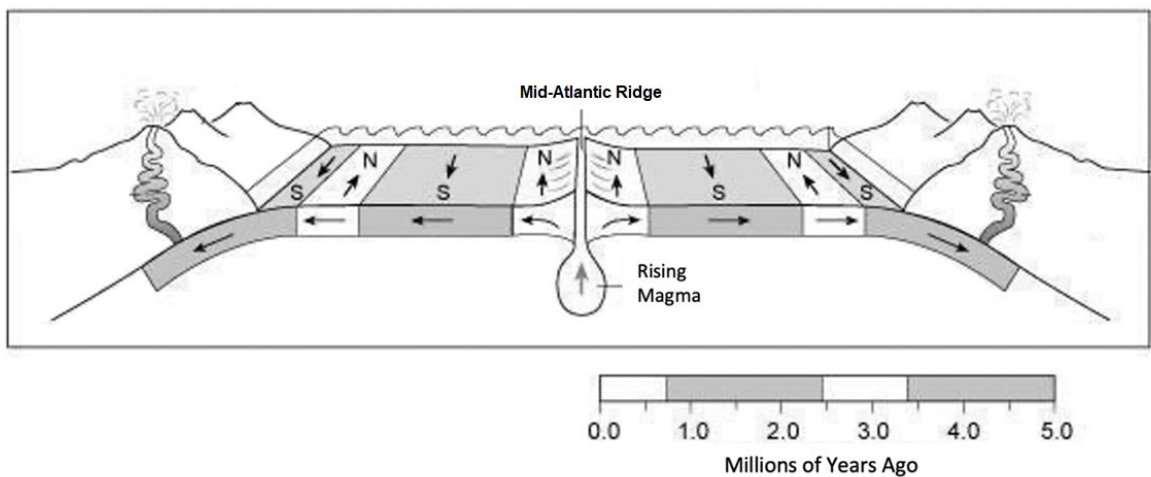


Fig. 6

- (i) Use Fig. 6 to outline one evidence of the plate tectonic theory.

[3]

- (ii) Study Fig. 7 (Insert), which shows information about two earthquakes that struck southern Turkey on 2 June, 2023. The earthquakes resulted in a total of 59,259 deaths in both Turkey and Syria, and US\$118 billion in economic cost for both countries.

With reference to Fig. 7, account for the impacts experienced by Turkey and Syria.

[3]

- (b) 'Conducting regular evacuation drills are more effective than land use planning in building community resilience to earthquakes.'

How far do you agree with the statement? Explain your answer.

- END OF PAPER -

Question 2 Fig. 3	© Adapted from: https://www.straitstimes.com/singapore/fire-at-shophouse-in-geylang-scdf-firefighters-on-site
Question 2 Fig. 4	© https://www.channelnewsasia.com/singapore/more-traffic-accidents-involving-elderly-pedestrians-2022-fatalities-spf-police-traffic-police-3276866
Question 2 Fig. 5	© https://www.istockphoto.com/vector/reykjavik-tourist-map-gm1256714378-368061365
Question 3 Fig. 6	© https://brainly.com/question/22767838
Question 3 Fig. 7	https://www.ft.com/content/295b1da7-7508-4103-80c5-aef3c3e0d6de

ADDITIONAL PAGE

[illegible]