



# CEDAR GIRLS' SECONDARY SCHOOL

## Preliminary Examination 2024

### Secondary Four

CANDIDATE  
NAME

CLASS

INDEX  
NUMBER

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## HUMANITIES

## 2260/02

Paper 2 Geography

20 August 2024

1 hour 45 minutes

Candidates answer on the Question Paper

Additional Materials: Insert

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### 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 or correction fluid.

Answer **three** questions in total:

#### Section A

Answer Question 1 **and** Question 2.

#### Section B

Answer **either** Question 3 **or** Question 4.

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.

Question	Marks
1	14
2	18
3 / 4	18
Total	50

[Turn over

This document consists of **20** printed pages and **1** Insert.

**Section A**

Answer Question 1 **and** Question 2.

**1 Cluster 1: Geography in Everyday Life**

- (a) Study Fig. 1.1 (Insert) which shows an activity for senior citizens.

Explain how the activity in Fig. 1.1 helps enhance the senior citizens' sense of place.

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[3]

- (b) Study Fig.1.2 (Insert), which shows nature in an urban environment.

Using Fig. 1.2, explain how regulating ecosystem services are provided by nature.

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- (c) Study Fig. 1.3, which shows one of the six pillars of Total Defence.

### Civil Defence



A vigilant and prepared society, with a crisis-ready mindset.

**Fig. 1.3**

With reference to Fig. 1.3, suggest how the role of Civil Defence strengthens a community's resilience to resist, adapt, and recover from a disaster.

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- (d) A group of students were investigating the popularity of Singapore Botanical Gardens (SBG) among the locals, especially senior citizens. Their hypothesis was “*The Singapore Botanical Gardens is popular with senior citizens, mainly for its orchid display.*”

They counted the number of visitors at all the 3 gateways of the Singapore Botanical Gardens from 9.00 am to 10.00 am one weekday morning. The results are collated in Table 1.1.

**Table 1.1**

**Number of visitors**

Venue	Young people	Adults	Senior Citizens
Gate 1 (Tanglin)	5	29	34
Gate 2 (Nassim)	17	61	40
Gate 3 (Bukit Timah)	2	42	39

The students also interviewed 30 senior citizens (10 at each gate) to find out if they visited the Singapore Botanical Gardens that day for the orchid displays at the National Orchid Garden. The results are collated in Table 1.2.

**Table 1.2**

**Main reason to visit that day**

Main reason for visit that day	No. of senior citizens
Admire the orchid display at National Orchid Garden	16
Brisk walk at Symphony Lake and its surrounding gardens	1
Breakfast at restaurants located within the Botanical Gardens	10
Others: accompany grandchildren at the Jacob Ballas playground	3

Using Tables 1.1 and 1.2, evaluate the validity of the students' findings regarding their hypothesis.

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[Total: 14]

**2 Cluster 2: Tourism**

- (a) Study Fig. 2.1 (Insert), which shows the percentage share of monthly cruise passengers by region of destination in 2012.

Compare the trends shown in Fig. 2.1.

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- (b) Explain how mobility in travel can lead to growth of tourism.

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- (c) "The places that are attractive to tourists are often damaged by their presence."

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

[illegible]





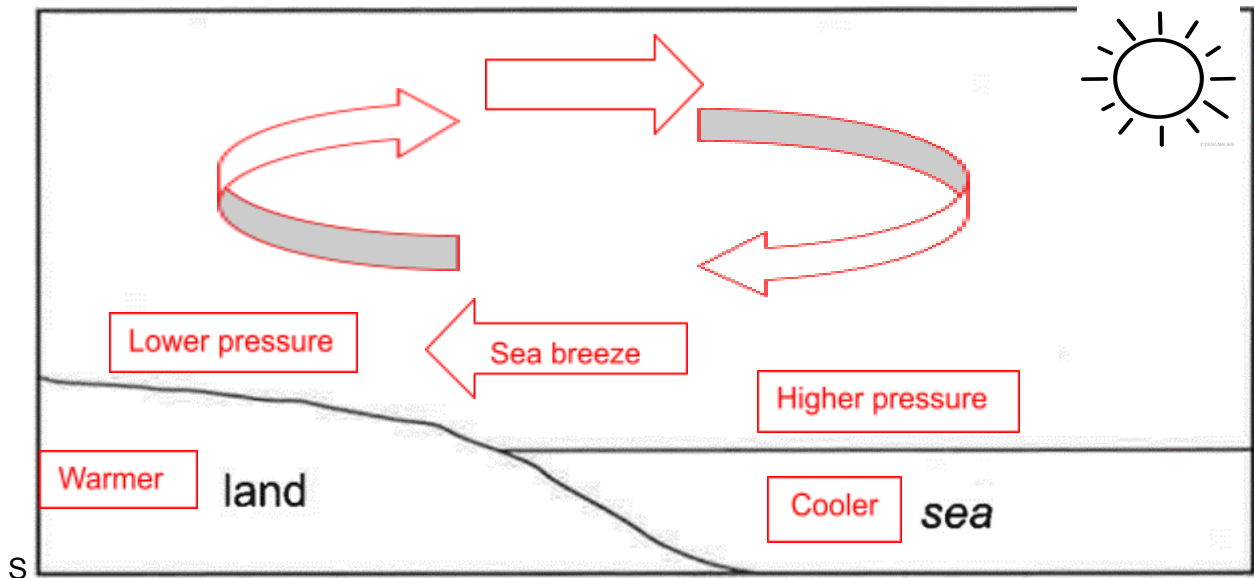
## Section B

Answer **either** Question 3 **or** Question 4.

## 3 Cluster 3: Climate

- (a) In Fig. 3.1 (below), complete the diagram with annotations to illustrate how a local breeze is formed. [1]

**Formation of a local breeze**

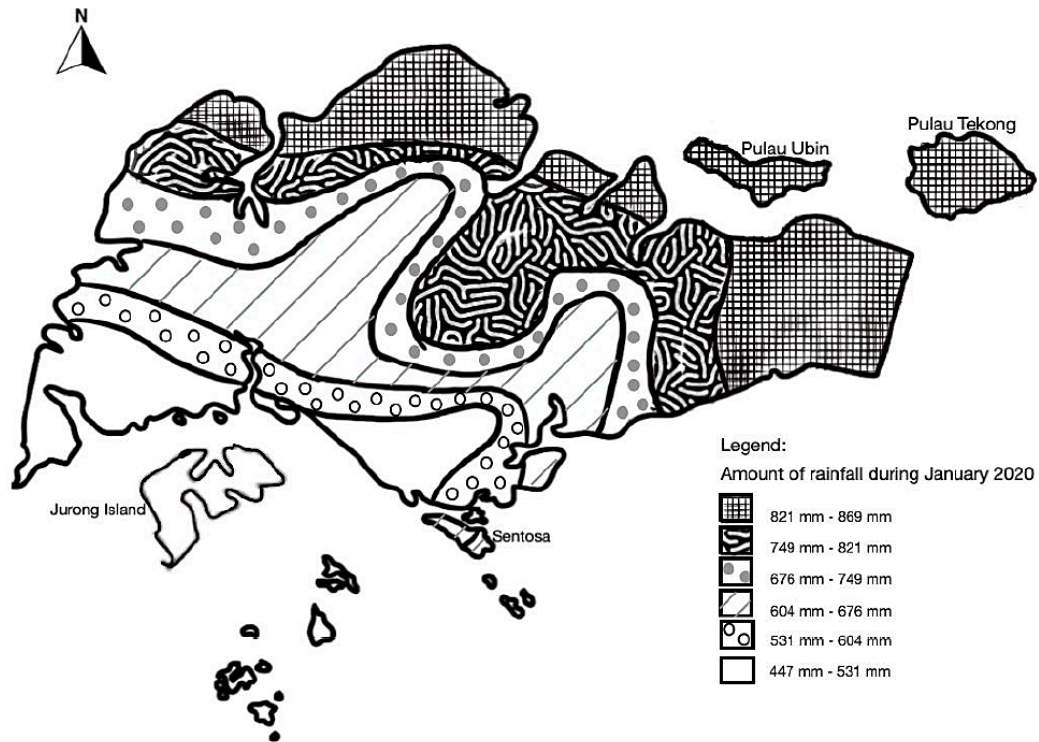


**Fig. 3.1**

- (b) Explain how rising world population contributes to the enhanced greenhouse effect. [5]

- (c) Study Fig. 3.2, which shows rainfall over Singapore in January 2020.

**Rainfall over Singapore in January 2020**



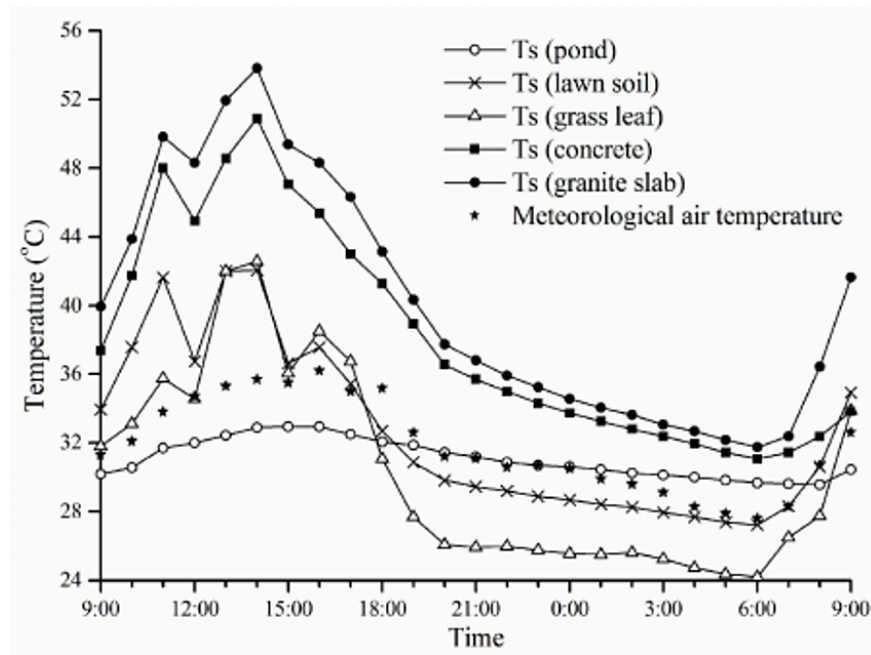
**Fig. 3.2**

Using Fig. 3.2, compare the rainfall pattern over Singapore in January 2020.

[2]

- (d) Study Fig. 3.3, which shows diurnal temperature changes on different types of surfaces.

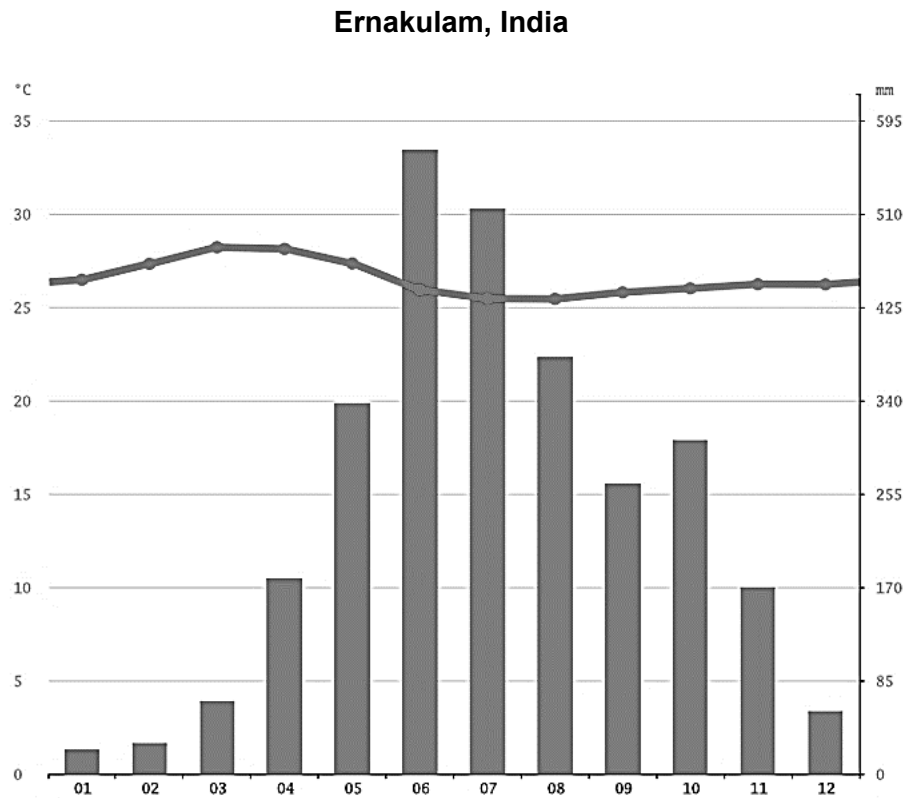
### Diurnal temperature changes



**Fig. 3.3**

Explain the differences in diurnal temperature changes between concrete, grass leaf and pond surfaces shown in Fig. 3.3. [4]

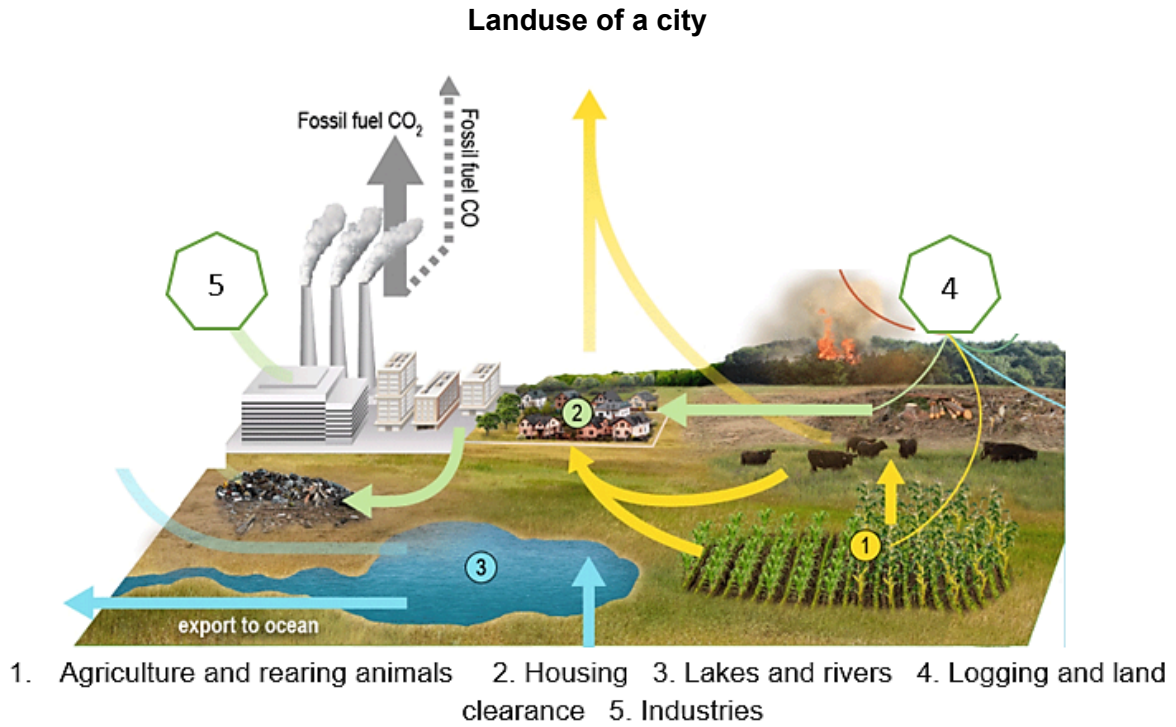
(e) Study Fig. 3.4, which shows the climograph of Ernakulam, India



**Fig. 3.4**

Explain how information from Fig. 3.4 can be used to identify the climate type of Ernakulam, India. [3]

- (f) Study Fig. 3.5, which shows the landuse of a city.

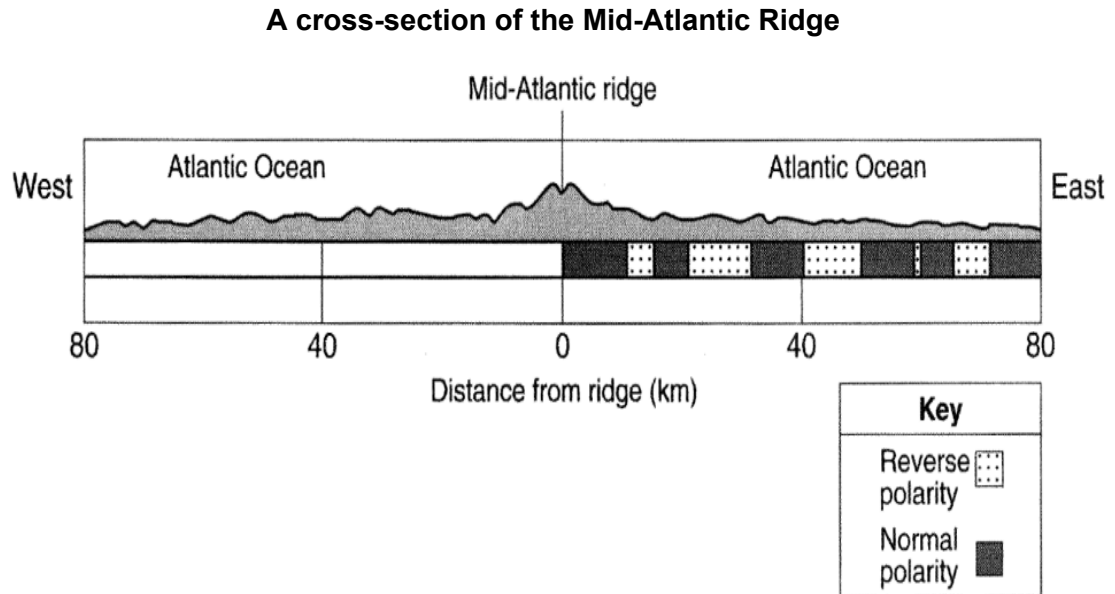


**Fig. 3.5**

Explain how climate change can hinder the sustainable development of the city shown in Fig. 3.5. [3]

#### 4 Cluster 4: Tectonics

- (a) Study Fig. 4.1, which shows the cross-section of magnetic fields of the oceanic crust east of the Mid-Atlantic Ridge.



**Fig. 4.1**

- (i) Complete the magnetic field pattern of the oceanic crust located west of the Mid-Atlantic Ridge in Fig. 4.1 (above).  
[1]
- (ii) Using Fig. 4.1, outline how magnetic striping supports the plate tectonic theory.

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- (b) Using a named example, explain the processes and resultant landforms associated with oceanic-continental convergent plate boundaries.

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- (c) (i) Study Fig. 4.2 (Insert), which shows the extent of ash cloud after the eruption of a volcano in Iceland in 2010.

Describe the distribution of area covered by the ash cloud shown in Fig 4.2.

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- (ii) Study Fig. 4.3, which shows a news clipping of the volcanic eruption in Fig. 4.2 (Insert).

### **Impact of volcanic eruption in the European region**

"Volcanic ash represents a significant safety threat to aircraft. Oslo airport, which is Norway's largest, was closed on Thursday morning, meaning Norwegian airspace was completely closed.

"Flights will be cancelled probably all day with the current prognosis," said Jo Kobro, information manager at Oslo Airport. "Then we have to wait and see what the new weather forecasts will say about the wind direction, and if we are lucky the eruption diminishes in strength."

Tim Farish, who had been planning to fly from Oslo to London on business, said he had been told by the airline SAS to stay at home and not bother calling for updates.

"We can actually smell sulphur in the air here now from the volcano cloud," he told the BBC from his home in the Norwegian capital. "This could last for a few days apparently, so all I can do, like anyone else, is sit and wait."

**Fig. 4.3**

With reference to Fig. 4.2 and Fig. 4.3, explain the consequences of the eruption of the volcano on the economy and people in the region.

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- (d) Study Fig. 4.4 (Insert), which shows a town that has been reinforced to be tsunami-resistant.

Using Fig. 4.4, explain how the measures implemented by the government protects the town from the impacts of tsunamis.

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[Total: 18]

**Additional page**

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

This image shows a full page of white paper with horizontal dashed lines, typical of primary school handwriting practice paper. The lines are evenly spaced and run across the entire width of the page. There are no margins, text, or other markings present.

**Additional page**

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

[illegible]



Question 4d Fig. 4.4

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