

NAME

FORM CLASS

ACADEMIC CLASS

INDEX NO.

--	--	--	--



ST. PATRICK'S SCHOOL MASTERY REVIEW 2024

SUBJECT : Geography (2279)

DATE : 13 MAY 2024

LEVEL : Secondary 4 Express

DURATION: 1 hr 40 min

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 on both sides of the paper.

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

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

Answer ALL Questions

The Insert contains additional resources referred to in the questions.

At the end of the examination, fasten all your work securely together.

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

Question 1	a	b	c	d		Sub-Total
Question 2	a	b	c			Sub-Total
Question 3	a	b(i)	b(ii)	c	d	Sub-Total
Parents' Signature					Total	

This document consists of 17 printed pages, 1 blank page and 1 Insert.

1 Geographical Methods and Sustainable Development

A group of students wanted to investigate the hypothesis “Animal Presentation at the Sky Amphitheatre is the most popular attraction at Bird Paradise, Singapore.”

They conducted a survey on 20 visitors each from different age groups. The students decided to focus on only 8 main attractions as listed in Table 1.1.

- (a) Study Fig. 1.1(Insert), which shows the map of Bird Paradise, Singapore, and Table 1.1, which shows the results of the students’ investigation.

Results of the survey

Favourite Attractions	Age Groups					
	5-15	16-25	26-35	36-45	46-55	55 and above
Penguin Cove	2	1	2	2	1	2
Australian Outback	1	1	1	4	5	2
Mysterious Papua	0	0	3	2	3	4
Songs of the Forest	1	1	1	1	2	1
Amazonian Jewel	0	2	2	2	2	1
Crimson Wetlands	1	1	2	1	0	2
Sky Amphitheatre	7	7	3	4	5	4
Egg Splash	8	7	6	4	2	4

Table 1.1

Evaluate how well the data supports the hypothesis.

.....
.

.....
.

.....
.

.....
.

.....
.

.....
.

.....
.

.....
.

.....
.

.....
.

.....
.

.....
.

.....
.

.....	
.	
.....	
.	
.....	
.	
.....	[6]

- (b) The students also wondered if temperature plays a role in the average length of a visitor's stay.

They obtained the temperature data from the Meteorological Service's website in Singapore to aid in their investigation. They also conducted a survey on the length of stay by visitors to the Bird Paradise. In total, the students collected data from 210 visitors, over a period of a week.

Study Fig. 1.2, which shows the results from the students' research.

Results of the students' research

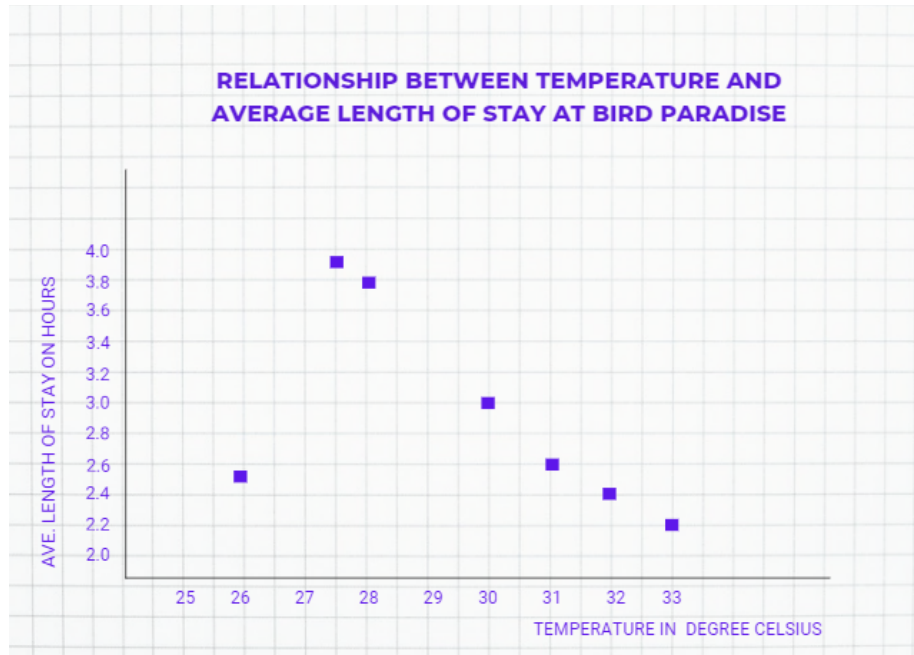


Fig. 1.2

Using Fig. 1.2, describe and account for the conclusions which the students can draw on the relationship between the average length of stay and average temperature.

.....

.

.....

.

.....

.

.....

.

.....

.

[illegible]

.....[6]

(c) To achieve environmental sustainability, states in Malaysia practise planting trees.

Study Fig.1.3 (Insert), which shows the number of trees planted by an organisation in states A and B in Malaysia.

Using Fig. 1.3, compare the trends of the number of trees planted between 2014 and 2018 in the two states in Malaysia.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.

.....

.

.....

.

.....

.

.....

.

.....[4]

(d) Explain how environmental stewardship efforts can help to achieve sustainability in urban neighbourhoods.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....[4]

[Total: 20]

2 **Tourism and Tectonics**

- (a) Explain how rocks get progressively older the further away they are from mid-oceanic ridges.

.....

.

.....

.

.....

.

.....

.

.....

.

.....[2]

(b) Study Fig. 2.1 (Insert), which shows an infographic of the earthquake that happened on the island of Sulawesi, Indonesia in 2018.

With reference to Fig. 2.1, suggest reasons for the difference in impact between Bangkir and Palu.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....[4]

(c) 'Some stakeholders are more effective than others in influencing sustainable tourism development.'

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

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....

.

.....[4]

- (b) Study Fig. 3.1, which is a graph that shows the air temperature over different types of surfaces.

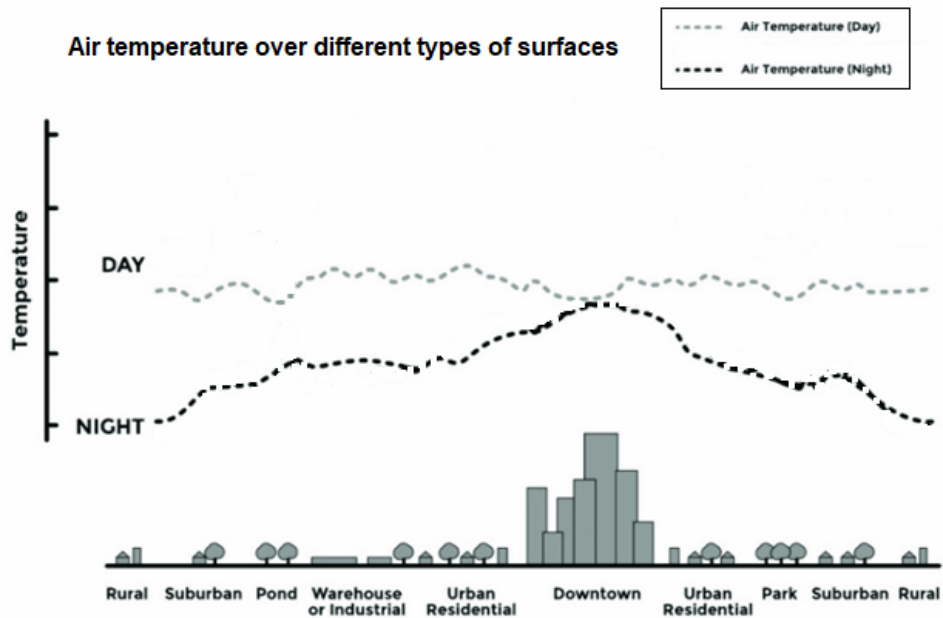


Fig. 3.1

- (i) Using Fig. 3.1, identify the area that has the lowest diurnal range of temperature.

.....[1]

- (ii) Explain why it has the smallest diurnal range of temperature.

.....
.

[illegible]

Using Fig. 3.2, describe the distribution of countries which are most and least at risk due to climate change.

.....[3]

(d) Explain the indirect impact of climate change on human systems.

.....

.

.....

.

.....

.

.....

.

.....[4]

[Total: 15]

Additional pages

.....

.....

This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the page.

Additional pages

.....

.....

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

~ End of Paper~

Copyright acknowledgements:

Question 1	Fig. 1.1	https://www.mandai.com/en/bird-paradise/plan-your-visit/park-map.html
Question 2	Fig. 2.1	Adapted from https://myrepublica.nagariknetwork.com/amp/infographics-toll-exceeds-840-in-indonesia-disaster/news.html.twig
Question 3	Fig. 3.1	Adapted from https://www.researchgate.net/figure/Relative-changes-in-air-and-surface-temperature-during-the-day-and-night-above-surfaces_fig1_341581230
Question 3	Fig. 3.2	https://www.researchgate.net/figure/The-map-shows-the-countries-most-at-risk-and-least-at-risk-against-climate-change-28_fig1_348437846