

Name:	Class:	Register Number:
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**中正中學**

**CHUNG CHENG HIGH SCHOOL (MAIN)**

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**END-OF-YEAR EXAMINATION 2023**  
**SECONDARY 3**

**Geography**

**2279**

**3 October 2023**

Candidates answer on the Question Paper.

**1 hour 45 minutes**

Additional materials: Insert

**READ THESE INSTRUCTIONS FIRST**

Write your name, class and register number clearly 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.

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.

For Official Use	
Question 1	/20
Question 2	/15
Question 3	/15
Total	/50

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

**[Turn Over**

Answer **all** questions.

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

- (a) A class of students wanted to compare residents' level of satisfaction of the amenities offered in two neighbourhood shopping malls at two different parts of Singapore. Photographs of the two malls are shown in Figs. 1.1 and 1.2 (Insert). The students decided to survey 50 people.

The results of the question on levels of satisfaction in the questionnaire are shown in Table 1.1.

**Table 1.1**

**Results for Question 1**

Question 1: Please indicate your level of satisfaction with the following amenities in this shopping mall.

The shopping mall in Fig. 1.1

Amenities in the mall	Level of satisfaction				
	very dissatisfied	somewhat dissatisfied	neither dissatisfied nor satisfied	somewhat satisfied	very satisfied
availability of nursing room & handicapped toilets	2	4	20	15	9
variety of food eateries	2	8	3	15	22
prices of food	18	12	3	13	4
variety of retail outlets	2	7	8	9	24
cleanliness	2	4	15	10	19
<b>mean</b>	5.2	7.0		12.4	15.6

The shopping mall in Fig. 1.2

Amenities in the mall	Level of satisfaction				
	very dissatisfied	somewhat dissatisfied	neither dissatisfied nor satisfied	somewhat satisfied	very satisfied
availability of nursing room & handicapped toilets	3	5	5	14	23
variety of food eateries	16	23	2	4	5
prices of food	20	10	5	9	6
variety of retail outlets	13	14	5	13	5
cleanliness	3	5	15	9	18
<b>mean</b>	11	11.4	6.4	9.8	11.4

- (i) What type of rating scale is used in the questionnaire shown in Table 1.1?

.....[1]

- (ii) Complete the empty cell in Table 1.1 by calculating the mean for 'neither satisfied nor dissatisfied' for the neighbourhood in Fig. 1.1. [1]

- (iii) With reference to Figs. 1.1 and 1.2 (Insert), explain how the students could sample visitors to collect the data needed for their investigation.

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- (iv) Compare residents' level of satisfaction of amenities offered by the two shopping malls.

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- (v) Evaluate the reliability of the data collection method used in this investigation.

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**(b)** Study Fig. 1.3 (Insert), which shows a photograph of part of Bishan Park, Singapore.

With reference to Fig. 1.3, explain how people acquire a sense of place in their neighbourhood.

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**(c)** Evaluate the role of people in their interaction with nature.

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(d) Describe some measures on how neighbourhoods can be sustained environmentally.

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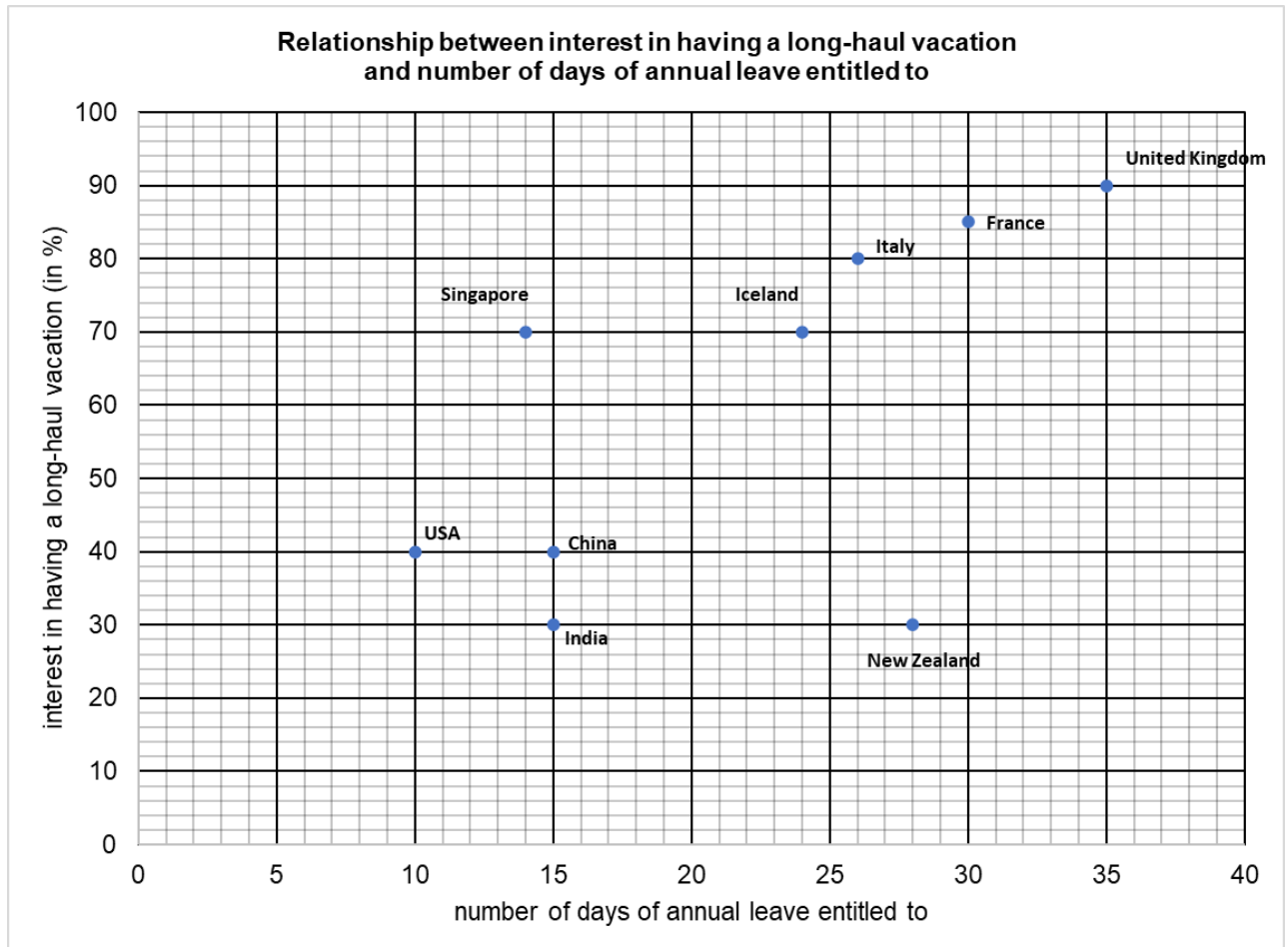
..... [3]

[Total = 20]

## 2 Cluster 2: Tourism

- (a) A survey was carried out on people from different countries to find out their level of interest in having a long-haul vacation and the number of days of annual leave they are entitled to.

Study Fig. 2.1, which shows the relationship between the number of days of annual leave entitled to and percentage of people surveyed who indicated their interest in taking a long-haul vacation.



Note: Long-haul vacation are trips which typically require more than 6 hours of travelling time.

**Fig. 2.1**

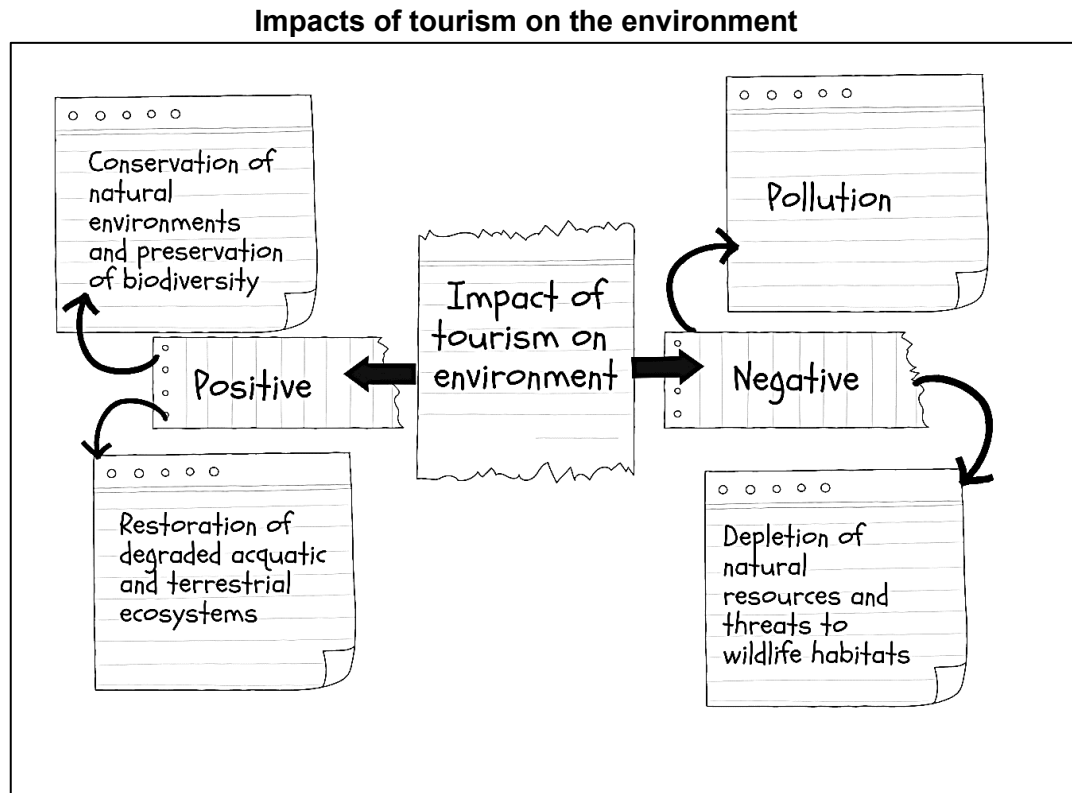
- (i) Draw a best fit line on Fig. 2.1 to indicate the relationship observed between the number of days of annual leave entitled to and percentage of people who indicated their interest in taking a long-haul vacation. [1]



- (ii) Using information from Fig. 2.1, to what extent does the percentage of people who indicated their interest in having a long-haul vacation appear to be influenced by the number of days of annual leave they are entitled to? Support your answer with evidence.

..... [5]

(b) Study Fig. 2.2 which shows the impacts of tourism on the environment.



**Fig. 2.2**

‘The environmental advantages of tourism outweigh the environmental disadvantages.’

With reference to Fig. 2.2, to what extent do you consider this statement to be true?  
Explain your answer.

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2023EOY/CCHMS/Secondary 3/Geography/2279

**3 Cluster 3: Climate**

**(a)** Explain why temperature varies at different latitudes.

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**(b)** Study Fig. 3.1 (Insert), which shows the distribution of rainfall in New Zealand and a relief map of the country.

**(i)** Using information from Fig. 3.1, describe how the distribution of rainfall varies in New Zealand.

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- (ii) Using information from Fig. 3.1, account for the variation in the distribution of rainfall in New Zealand.

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(c) Explain how higher sunspot activity results in higher temperatures on the Earth.

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(d) With reference to Fig. 3.2 (Insert), explain the impact of ocean acidification caused by climate change.

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[Total = 15]

## 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]





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*Copyright Acknowledgements:*

Question 1(a)	Fig. 1.1	© <a href="https://waterwaypoint.com/index.html">https://waterwaypoint.com/index.html</a>
	Fig. 1.2	© <a href="https://goodyfeed.com/the-5-shopping-malls-in-jurong-east-heres-the-best-we-think/">https://goodyfeed.com/the-5-shopping-malls-in-jurong-east-heres-the-best-we-think/</a>
Question 1(b)	Fig. 1.3	© <a href="https://www.ura.gov.sg/Corporate/Resources/Ideas-and-Trends/Sensing-the-City">https://www.ura.gov.sg/Corporate/Resources/Ideas-and-Trends/Sensing-the-City</a>
Question 3(b)	Figs 3.3 and 3.4	© <a href="https://link.springer.com/article/10.1007/s12665-014-3852-y">https://link.springer.com/article/10.1007/s12665-014-3852-y</a>
Question 3(d)	Fig. 3.5	© <a href="https://www.iucn.org/resources/issues-brief/ocean-and-climate-change">https://www.iucn.org/resources/issues-brief/ocean-and-climate-change</a>