

Section B

2. A group of students wanted to study the pH value of the water in the Singapore River.

They decided to carry out transect sampling and selected four spots along the river to collect the water sample. Data was collected at 10am and 8pm.

- a) Describe how transect sampling can be done and explain why it was chosen as the sampling method.

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- b) Suggest two safety precautions students should consider when conducting their data collection.

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c) The results of the data collected by the students are shown in Table 1.

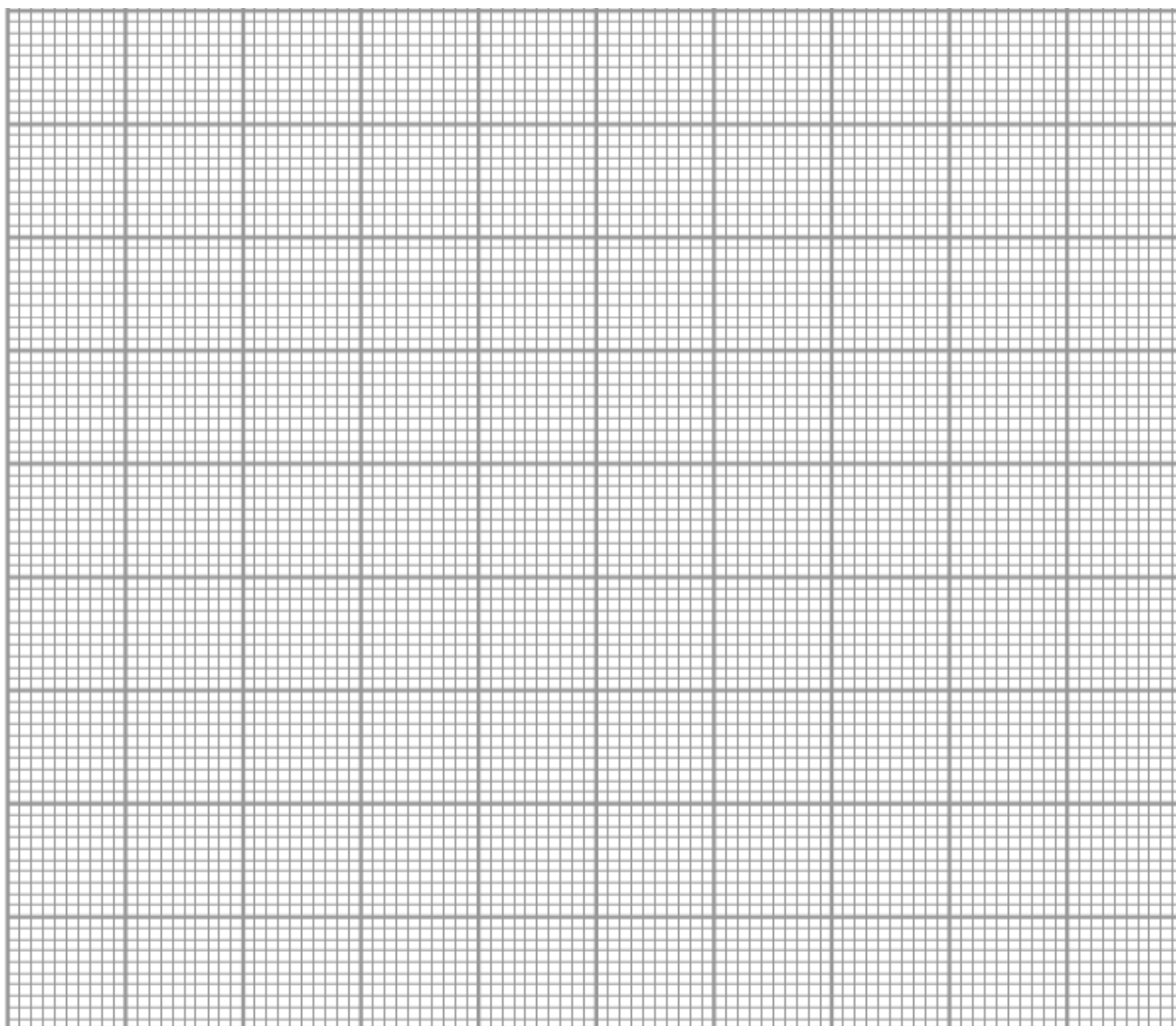
Table 1

pH value of the water in the Singapore River

Time of Data Collection	pH value at 10am	pH value at 8pm
Site 1	7	8
Site 2	5	7
Site 3	5	6

Draw a graph that best represents the data collected in Table 1.

[3]



Section C

3. Study Fig. 2, which shows the causes of tropical deforestation.

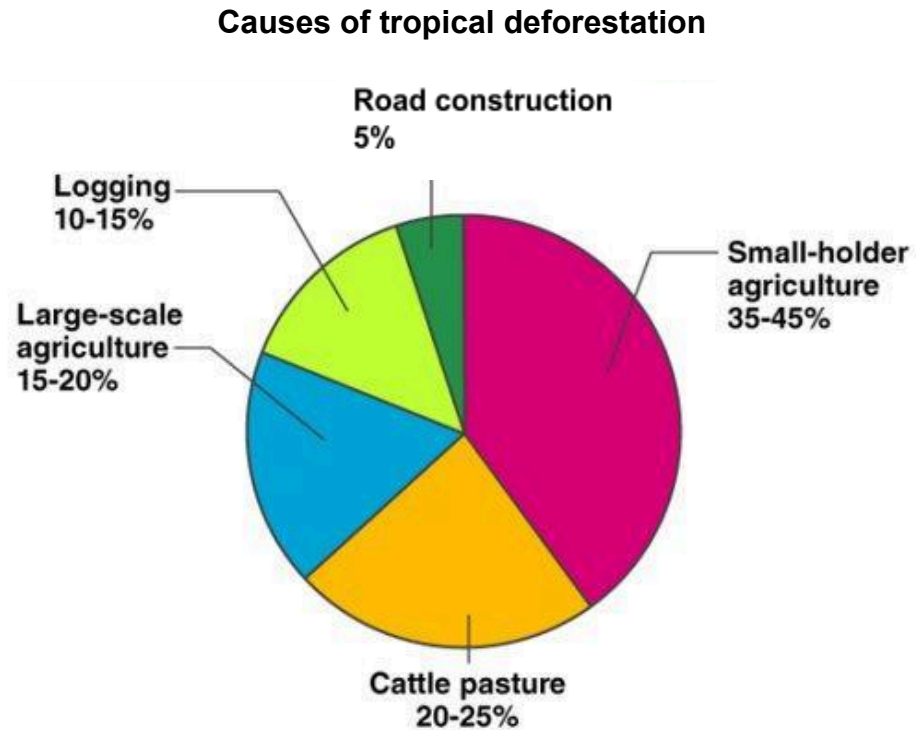


Fig. 2

- a) Describe the key patterns of the causes of tropical deforestation as shown in Fig. 2.

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b) Explain how deforestation can cause enhanced greenhouse effect.

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c) Outline two problems with using reforestation to rehabilitate deforested areas.

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4. Study Fig. 3, which shows a news excerpt on the water crisis in Cape Town.

Water Crisis in Cape Town

Cape Town's water crisis got so bad in 2018 that there were competitions to see who could wash their shirts the least. Restaurants and businesses were encouraging people not to flush after going to the toilet. At the most extreme, residents were restricted to a maximum of 50 litres a day – not easy when showers alone can use up to 15 litres a minute. The city was just 90 days away from turning off the taps.

However, by changing the city's habits, Cape Town managed to prevent the worst of the water crisis. The City of Cape Town introduced increasingly strict restrictions where they limited the volumes of water used and also restricted what the water was used for. Filling swimming pools, washing cars, and fountains were all banned. Households using high volumes of water faced big fines. The city also increased tariffs and rolled out water-management devices that set a daily limit on the water supply to properties.

Fig. 3

- a) Using Fig. 3, state a domestic activity that requires clean water.

..... [1]

- b) With reference to Fig. 3, explain why the strategy taken by the city to manage the water crisis was effective.

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- c) Explain how Cape Town can use technology and public education to develop new ways of conserving water.

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END OF PAPER

Copyrights Acknowledgements:

Question 1, Fig. 1
Question 2, Fig. 2
Question 3, Fig. 3

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