

TEMASEK JUNIOR COLLEGE

JC1 PROMOTIONAL EXAMINATION

Higher 2



H2 GEOGRAPHY

9173/02

Paper 2: Cluster 2 (Tropical Environments)

25 September 2023

Additional Materials: 1 Insert

1h and 30 minutes

READ THESE INSTRUCTIONS FIRST

An answer booklet will be provided with this question paper. You should follow the instructions on the front cover of the answer booklet. If you need additional paper ask the invigilator for a continuation booklet.

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 fluid.

Answer the question in **Section A**.

Answer one of the two questions in **Section B**.

The Insert contains all the Resources referred to in the questions.

You should make reference to appropriate examples studied in the field or the classroom, even where such examples are not specifically requested by the question.

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

You are reminded of the need for good English and clear presentation in your answers.

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

This document consists of 2 printed pages.

Section A

Answer the question.

Cluster 2: Tropical Environments

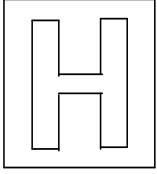
- 1** Resource 1 shows a climograph of Kolkata, India in the tropics. Resource 2 shows a fluvial landform in the humid tropics. Resource 3 shows a photograph of a delta.. Resource 4 shows the sizes of sediments along a tropical river channel at three different locations.
- (a)** Describe the characteristics of Kolkata's climate as shown in Resource 1. [6]
 - (b)** With reference to Resource 2, explain how the fluvial landform was formed. [6]
 - (c)** Describe the features of the delta shown in Resource 3. [4]
 - (d)** Explain the favourable conditions that may lead to the formation of deltas such as the one shown in Resource 3. [6]
 - (e)** Compare the sediment sizes at the three locations along a tropical river channel as shown in Resource 4. [4]
 - (f)** Explain **two** reasons why the sediment sizes in a river channel might vary at different locations. [4]

Section B

Answer **either** question 2 **or** question 3.

Cluster 2: Tropical Environments

- 2** Evaluate the relative influence of the Hadley Cell atmospheric circulation on rainfall patterns in the tropics. [20]
- 3** "The pathways in the drainage basin system in the tropics are mainly influenced by natural factors."
- Evaluate this statement. [20]



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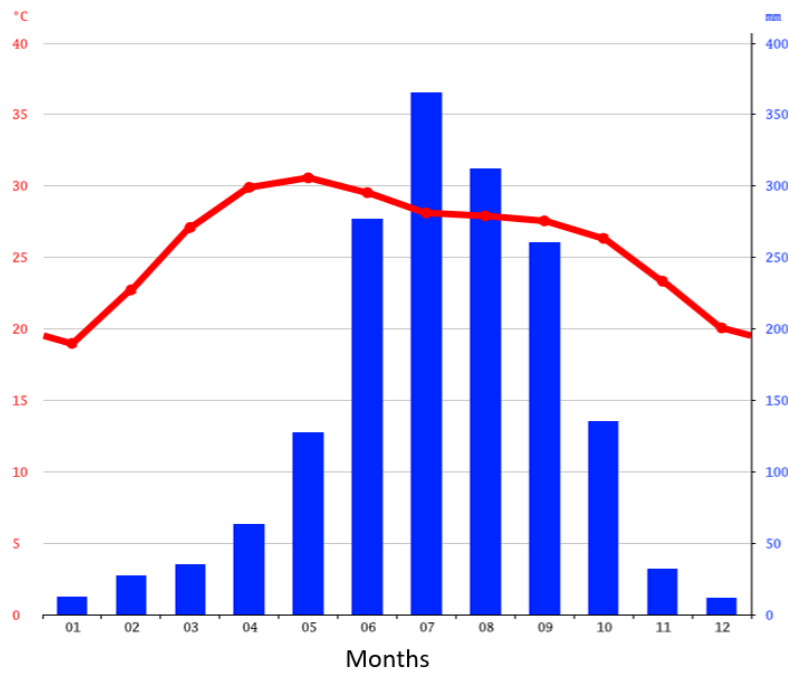
1h and 30 minutes

READ THESE INSTRUCTIONS FIRST

This Insert contains all the Resources referred to in the questions.

This document consists of **4** printed pages.

Resource 1 for Question 1
Climograph of Kolkata, India in the tropics



Resource 2 for Question 1
A fluvial landform in the humid tropics



Resource 3 for Question 1

A delta in the humid tropics



Resource 4 for Question 1**Sizes of sediments along a tropical river channel at three different locations**

location	0–0.01 mm (%)	0.02–0.10 mm (%)	0.11–1.00 mm (%)	1.01–10.00 mm (%)	10.01–100.00 mm (%)	>100 mm (%)
X	0	2	3	4	35	56
Y	5	12	18	40	19	6
Z	60	35	4	1	0	0