YISHUN INNOVA JUNIOR COLLEGE
JC 1 PROMOTIONAL EXAMINATION
Higher 2

CANDIDATE NAME

CG

INDEX NO

GEOGRAPHY **9173/01**

Paper 1 **28th September 2023**

2 hours 30mins

READ THESE INSTRUCTIONS FIRST

If you have been given an Answer Booklet, follow the instructions on the front cover of the Booklet.

Write your Class, index number and name on 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 fluid.

Answer Question 1 and 2 in Section A.

Answer Question 3 in Section B.

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

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

This document consists of **3** printed pages.

Section A : Data-Response Questions

Answer, both Questions 1 and 2 in the Answer Booklet.

1. Resource 1 shows 2 different features, 1A and 1B, which have been affected by weathering processes. Resource 2 shows Peltier's model on weathering on a global scale. Resource 3 shows Strakhov's model on basal surface of weathering on a global scale.

   (a) Identify and explain the weathering process which could have contributed to the feature shown in Resource 1A. [3]

   (b) Explain the weathering process/es which may have contributed to the weathering of the feature shown in Resource 1B. [6]

   (c) Explain the role-played by geology in affecting the features shown in Resources 1A and 1B. [5]

   (d) With the use of a diagram, account for a weathering process which functions at the region highlighted in green ( ), in Resource 2. [5]

   (e) With reference to Resource 2, explain the role played by climate on the type and rates of weathering processes in the humid and arid regions. [6]

   (f) Suggest reasons for the depth of weathering between regions Y and Z, shown in Resource 3. [5]

2. Resource 4 shows the climate graph of Ho Chi Minh, Vietnam.
Resource 5 shows a table with the data of 2 rivers, A and B.
Resource 6 shows a part of the Saigon river (middle course), Ho Chi Minh, Vietnam.

(a) Cite data from Resource 4 to describe the climate characteristics of Ho Chi Minh, Vietnam. [5]

(b) With reference to Resource 5, explain which river, A or B, is more efficient. [6]

(c) With reference to Resource 6, describe the dominant fluvial processes in the Saigon River. For evidence of the fluvial processes, **annotate** on Resource 6. **Detach** Resource 6 on Page 6 and **Submit** Resource 6 with your Answer Booklet. [5]

(d) Explain why the finer sediment load such as clay (smaller than 0.002mm in diametre) requires similar velocity to be transported/entrained as coarser sediment such as gravel (4 mm to 64mm in diameter)? [3]

(e) Explain why the mean velocity may vary between the upper and lower course of the Saigon River. [4]

(f) Assess how far human activities can affect the fluvial processes shown in the Saigon River, using your own knowledge and Resource 6. [7]

Section B : Essay Question

Answer the question in the Answer Booklet.

3. Evaluate the extent to which natural factors account for the movement of materials on slopes. [20]

[80 marks]