

YISHUN JUNIOR COLLEGE
JC2 PRELIMINARY EXAMINATION 2008

GEOGRAPHY
Higher 1

8812/01
22/08/2008, Friday
0800-1100hrs

PAPER 1

3 HOURS

Additional Materials: Writing Paper
World Outline Map
Insert



INSTRUCTIONS TO CANDIDATES

Write your Centre number, index number and name on all the work you hand in.
Write in dark blue or black pen on both sides of the paper.
You may use a soft pencil for any diagrams, graphs or rough working.
Do not use staples, paper clips, highlighters, glue or correction liquid.

Section A
Answer **all** questions.

Section B
Answer **one** question.

Section C
Answer **one** question.

The Insert contains all the Figures referred to in the question paper.
Diagrams and sketch maps should be drawn whenever they serve to illustrate an answer.
The world outline map may be annotated and handed in with relevant answers.
You are reminded of the need for good English and clear presentation in your answers.

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.

Section A (Data Response)

Answer **four** questions from this section.

Questions 1,2 and 3 carry 12 marks and Question 4 carries 14 marks.
You should allocate your time accordingly.

Lithospheric Processes, Hazards and Management

- 1** Fig. 1 shows the location of the Himalayas.
- (a) Describe the tectonic location and setting of the Himalayas. [3]
 - (b) Explain the formation of the Himalayas. [5]
 - (c) Explain why earthquakes are associated with this boundary. [4]

Hydrologic Processes, Hazards and Management

- 2** Fig. 2 shows the water stores and flows in a drainage basin.
- (a) Using the diagram, distinguish between the terms infiltration and percolation. [4]
 - (b) Explain how the river discharge reaches the channel. [5]
 - (c) Using fieldwork techniques you have studied, how would you measure the velocity of flow in the river channel? [3]

The Globalisation of Economic Activity

- 3** Fig. 3A shows the impact on per capita income of a 1 per cent increase in world export market shares for selected regions while Fig. 3B shows Africa's share of world trade.
- (a) With reference to Fig. 3A, describe the relationship between trade, aid and per capita income. [3]
 - (b) Account for these variations. [3]
 - (c) With reference to Fig. 3A and Fig. 3B, explain three measures that can be undertaken to improve the situation in Africa. [6]

Lithospheric Processes and Hydrologic Processes, Hazards and Management

- 4** Photograph A shows a river channel on the South Branch of the Potomac River in West Virginia. Fig. 4 shows some factors affecting processes operating on a slope.
- (a)** Draw a labeled diagram to identify the main features of the river channel and valley-side slopes represented in Photograph A. [5]
- (b)** Explain the connections between the river channel system and slope processes. [5]
- (c)** Briefly describe how two human activities can possibly affect slope processes shown in Photograph A. [4]

Section B Physical Geography

Answer **one** question from this section.

Lithospheric Processes, Hazards and Management

5 EITHER

- (a) Fig. 5 shows the effects of the Soufriere Hills volcanic eruption in Montserrat. Describe and account for the hazardous effects of the eruption. [9]
- (b) To what extent does climate play a role in affecting the weathering of granite and its resultant landforms? [16]

OR

- (a) Compare the processes of chemical weathering and physical (mechanical) weathering. [9]
- (b) To what extent can earthquakes be predicted and its effects reduced? [16]

Hydrologic Processes, Hazards and Management

6 EITHER

- (a) Explain why river valleys show great variation in terms of form and shapes. [9]
- (b) "Humans have a profound impact on the hydrology of a river." To what extent do you agree with this statement? [16]

OR

- (a) Explain how the processes of erosion, transportation and deposition relate to the formation of meanders and braided rivers. [9]
- (b) Evaluate the factors which cause changes in channel discharge and velocity along the course of a river and also at different times of the year. [16]

Section C: Human Geography

Answer **one** question from this section.

Globalization of Economic Activity

7 EITHER

(a) Describe the role of government in the economic development of a country. [9]

(b) “DCs stand to gain more from globalizing processes as opposed to LDCS.” To what extent do you agree with this statement? [16]

OR

(a) How have new technologies impacted upon work and the workplace? [9]

(b) Discuss the role of supranational bodies and their impact on national and regional economies. [16]

- END OF PAPER-