



**JURONG JUNIOR COLLEGE
JC2 GEOGRAPHY
PRELIMINARY EXAMINATION 2008**

GEOGRAPHY

8812/01

Higher 1

Paper 1

Tuesday

19 August 2008

3 hours

Name: _____

Class: _____

INSTRUCTIONS TO CANDIDATES

Write in dark blue or black pen.

You may use a soft pencil for any diagrams, graphs or rough working.

Do not use paper clips, highlighters, glue or correction fluid.

Section A

Answer **all** questions.

Section B and C

Answer one question in section B and one question in section C. Please indicate whether you selected the 'either' or 'or' question. Eg. Q5 Either

Insert 1 contains all the figures referred to in the question paper.

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.

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.

Please attach your answers to the cover page provided.

Section A

Answer **all** the questions in 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. Figure 1 shows a rock that has been weathered along its joints.

- (a) Identify and describe the outcome of weathering that is evident in Figure 1. [2]
- (b) With reference to a specific weathering process, show how it has led to the outcome above. [5]
- (c) Explain how a different weathering process from the one in (b) can result in another type of weathering outcome. [5]

The Globalisation of Economic Activity

2. Figures 2A, 2B and 2C compare the unemployment rate, labour costs and company tax amongst six economies in the trade bloc, the European Union (EU). UK and Germany are the two largest economies in the trade bloc whilst the four Eastern European countries are new members.

- (a) Define the term 'trade bloc'. [2]
- (b) With reference to Figures 2A, 2B and 2C, describe the differences between Western Europe (UK and Germany) and Eastern Europe in terms of unemployment rate, labour costs and company tax rates. [4]
- (c) Since the inclusion of Eastern Europe to the trade bloc, there has been a large movement of manufacturing industries from Western Europe to Eastern Europe. Based on the differences you have identified in (b), explain the movement. [6]

Hydrologic Processes, Hazards and Management

3. **Either** Figure 3 is from a newspaper article on the Three Gorges Dam in China.

- (a) With the aid of Figure 3, show how catchment management through dam construction can create conflicts of interest. [6]
- (b) Suggest how the negative impacts highlighted in Figure 3 may be reduced for the affected groups. [6]

Urban Issues and Challenges

3. **Or** Figure 4 shows changes over time in land values in an industrial city in a DC.
- (a) Describe the changes in the relationship between land value and distance from CBD shown in Figure 4. [4]
 - (b) Suggest reasons why land in zone 'S' increases in value during the declining industrial stage. Use examples to support your answer. [4]
 - (c) Briefly explain two methods which you would use to delimit the CBD of Singapore. [4]

Lithospheric Processes, Hazards and Management and Hydrologic Processes, Hazards and Management

- 4 **Either** Figure 5 shows some of the factors that increase the risk of mass movements.
- (a) With reference to examples, explain how the following will result in a high risk of mass movements:
 - (i) Pore water pressure
 - (ii) Rock orientation
 - (iii) Density of vegetation [8]
 - (b) Describe the primary fieldwork techniques you may employ to assess the occurrence of soil creep in an area. [4]
 - (c) Explain how landslides can increase flood risk. [2]

The Globalisation of Economic Activity and Urban Issues and Challenges

- 4 **Or** Figure 6 shows a newspaper article outlining changes in American cities due to rising oil prices.
- (a) Explain what is meant by the term 'suburbanisation'. [2]
 - (b) Discuss how high petrol prices will influence the future urban forms of America. [6]
 - (c) Suggest how rising transport prices will affect the new international division of labour of manufacturing activities. [6]

Section B: Physical Geography

Answer **one** question from this section.

Lithospheric Processes, Hazards and Management

- 5 **EITHER** (a) Explain the evidences for plate tectonics. [9]
- (b) To what extent is knowledge of processes occurring at plate boundaries sufficient in understanding the development of volcanoes and earthquakes? [16]
- 5 **OR** (a) Explain the characteristics of granite and limestone. [9]
- (b) Evaluate the role of rock jointing in the development of granite landforms. [16]

Hydrologic Processes, Hazards and Management

- 6 **EITHER** (a) Outline the factors affecting drainage density. [9]
- (b) 'Climate is the only influence on the operation of the hydrologic cycle in a drainage basin'. Discuss the validity of this statement. [16]
- 6 **OR** (a) Distinguish amongst the terms *dissolved load*, *suspended load* and *bedload*. [9]
- (b) Explain how channel processes may be able to account for the form of **both** meandering and braided channels. [16]

Section C: Human Geography
Answer **one** question from this section.

Globalisation of Economic Activity

- 7** **Either**
- (a) Describe the main characteristics of the 'new international division of labour'. [9]
- (b) "TNCs are a necessary evil for the economic development of a host country." To what extent do you agree with this statement? [16]
- 7** **Or**
- (a) Outline the ways in which new technologies have impacted the nature of work. [9]
- (b) "Globalisation has resulted in the death of the nation-state."
Kenichi Ohmae, Author of The End of the Nation-State
- Discuss the validity of this statement with reference to the role of the government, TNC and supranational institutions within the context of economic development. [16]

Urban Issues and Challenges

- 8 **Either** (a) Explain why there is a rise in traffic problems in the world today. [9]
- (b) The issues of homelessness in urban areas of LDCs is more difficult to address than those present in DCs. To what extent do you agree with this statement? [16]
- 8 **Or** (a) Discuss the social and economic consequences of gentrification for inner city residents. [9]
- (b) With the aid of examples, assess the effectiveness of strategies adopted by LDCs and DCs to manage urban transport problems. [16]

**** END OF PAPER ****