

ANGLO-CHINESE JUNIOR COLLEGE

JC 2 Preliminary Examinations 2008

GEOGRAPHY

Higher 1

8812/01

Time: 3 hours

12 August 2008 (Tuesday)

READ THESE INSTRUCTIONS FIRST

Write your Centre number, index number and name on all the work you hand in.

Write in dark blue or black pen.

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

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

Section A

Answer **all** questions.

Section B

Answer **one** question in this section.

Section C

Answer **one** question in this section.

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.

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.

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

On the **cover sheet** provided, include:

- Your name and index no.
- The question numbers of the question you have attempted in the boxes provided, and place the cover sheet as the top page over your answers.
- At the end of the examination, fasten all your work securely together as one bundle.

This document consists of 6 printed pages, including this cover page.

Insert 1 consists of 7 printed pages.



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[Turn Over

Section A

Answer **all** the questions in this section.

Question 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 section of the Earth and two plate boundaries – divergent and convergent plate boundaries.
 - (a) Briefly explain how the oceanic trench and the Andes Mountains are formed. [4]
 - (b) Identify and explain two evidence that can be found at divergent plate boundaries and two evidence found at convergent plate boundaries, and show how these evidence can be used to support the Theory of Plate Tectonics. [8]

The Globalisation of Economic Activity

- 2 Figure 2 shows South Korea's changing employment structure from 1950 to 1990.
 - (a) Describe the changing employment structure as shown in Figure 2. [3]
 - (b) Suggest two factors that gave South Korea a comparative advantage over Developed Countries (DCs) in attracting manufacturing industries during the 1960s. [4]
 - (c) Discuss the usefulness of Figure 2 in measuring the level of development of South Korea. [5]

- 3 Answer EITHER the question on Hydrologic Processes, Hazards and Management OR the question on Urban Issues and Challenges. Do NOT answer both.

EITHER

Hydrologic Processes, Hazards and Management

Figure 3 shows the key components of the hydrological cycle.

- (a) Clearly differentiate the terms *infiltration*, *throughflow*, *interflow* and *groundwater flow*. [2]
- (b) Using Figure 3, explain how the Hortonian Overland Flow (HOF) and Saturated Overland Flow (SOF) are generated. [6]
- (c) Explain the effects that the different types of vegetation have on interception. [4]

OR

Urban Issues and Challenges

Figure 4 shows 21 urban agglomerations that are expected to be megacities in 2015 and their average annual growth rates.

- (a) Distinguish between *mega city* and *global city*. [2]
- (b) (i) Compare and contrast the growth of the megacities in Less Developed Countries (LDCs) and those in Developed Countries (DCs) as shown in Figure 4. [4]
- (ii) Discuss **two** problems that occur within megacities in LDCs. [4]
- (c) Using **one** method, outline how you would go about delimiting the Central Business District. [2]

- 4 Answer **EITHER** the question on Lithospheric and Hydrologic Processes, Hazards and Management **OR** the question on the Globalisation of Economic Activity and Urban Issues and Challenges. Do **NOT** answer both.

EITHER

Lithospheric and Hydrologic Processes, Hazards and Management

Figure 5 shows a river channel with a deep narrow gorge flowing through a limestone environment.

- (a) Describe the key lithological characteristics of limestone as a rock and explain how it is weathered. [4]
- (b) Briefly explain how you would measure the discharge of the river shown in Figure 5. [4]
- (c) Discuss how mass movements and fluvial erosion processes would have modified this river channel in Figure 5 over time. [6]

OR

The Globalisation of Economic Activity and Urban Issues and Challenges

Figure 6 shows the changing population in Liverpool (a city in a Developed Country), 1700-2004.

- (a) (i) Define and identify the years in which **reurbanisation** is taking place in Figure 6. [2]
- (ii) Discuss how the changing residential patterns have led to reurbanisation in cities in Developed Countries (DC). [6]
- (b) Explain the extent to which the new international division of labour can be used to account for the changing population in Liverpool from 1937 to 2001. [6]

Section B Physical Geography
Answer **one** question in this section.

Lithospheric Processes, Hazards and Management

5 EITHER

- (a) Using examples, explain the geologic and anthropogenic causes of rapid mass movements. [9]
- (b) To what extent can the tectonic hazards be successfully predicted? Justify your answers with specific examples. [16]

OR

- (a) Using examples, account for the intra-plate volcanism and seismicity. [9]
- (b) Explain the role of geology and climate in granite landform development in both tropical and temperate environments. [16]

Hydrologic Processes, Hazards and Management

6 EITHER

- (a) With the aid of diagrams, account for the variations in shape and size of a hydrograph. [9]
- (b) To what extent can the effects of flood hazard be mitigated successfully? Justify your answers with examples. [16]

OR

- (a) Describe the characteristics of braided streams and explain the conditions required for braiding. [9]
- (b) With reference to examples, assess the effectiveness of the strategies used to resolve the conflicts of interest arising from the use of shared water resources and river basin management. [16]

Section C Human Geography
Answer **one** question in this section.

The Globalisation of Economic Activity

7 EITHER

- (a) With reference to example or examples, explain the terms **de-industrialisation** and **re-industrialisation**. [9]
- (b) Using examples, analyse the view that globalisation has brought about equal benefits to Developed Countries (DCs) and Less Developed Countries (LDCs). [16]

OR

- (a) Discuss the causes of the emergence of new international division of labour on the global economic activities. [9]
- (b) Using at least two named areas, assess the effectiveness of the state in economic development. [16]

Urban Issues and Challenges

8 EITHER

- (a) Using examples, explain the term **urban sprawl** and describe **two** ways to curb urban sprawl. [9]
- (b) With reference to examples, consider the extent to which state planning has been responsible for the urban structure of cities. [16]

OR

- (a) With reference to example or examples, describe factors that may lead to the growth of urban settlements. [9]
- (b) Using examples, discuss the view that reducing the number of private cars alone would solve transport problems in urban areas. [16]

[End]