



# ANGLO-CHINESE JUNIOR COLLEGE

## JC 2 Preliminary Examinations 2016

### GEOGRAPHY

### Higher 1

## 8812/01

Time: 3 hours

19 August 2016

#### 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 **four** questions.

#### Section B

Answer **one** question in this section.

#### Section C

Answer **one** question in this section.

You are advised not to spend more than 1 hour 30 minutes on Section A.

The insert contains all the Figures, Tables, and Photographs referred to in the questions.

You should make reference to appropriate examples studied in the field or in 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.

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. as well as the question numbers of the questions you have attempted.

At the end of the examination, the following will be fastened and handed in separately:

- Question 1 in a bundle
- Questions 2 to 4 in a bundle
- Section B in a bundle
- Section C in a bundle

This document consists of 5 printed pages, including this cover page.  
Insert 1 consists of 9 printed pages.



Department of Geography  
Anglo-Chinese Junior College  
25 Dover Close East Singapore 139745

[Turn Over

### Section A

Answer **four** 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 Photograph A shows one type of granite landform found in a temperate region. Photograph B shows one type of limestone landform found in a humid tropical region.
- (a) Identify each of the landform shown in Photographs A and B. [2]
- (b) Explain how geology and climate may influence weathering and erosional processes to produce the landforms shown in Photographs A and B. [10]

#### The Globalisation of Economic Activity

- 2 Fig. 1A shows the predicted global projection based on GDP adjusted for purchasing power parity (PPP) for the year 2020. Fig. 1B shows the normal global projection.
- (a) With reference to Fig. 1A, describe the predicted GDP (adjusted for PPP) for the year 2020. [3]
- (b) Explain why GDP is **not** an accurate indicator of development. [3]
- (c) To what extent does the global shift of manufacturing explain the GDP projection as shown in Fig. 1A? [6]

#### Hydrologic Processes, Hazards and Management

- 3 **EITHER**
- Fig. 2A shows the annual hydrograph of two rivers, the Ock and the Lambourn in UK in year 2000. Figs. 2B and 2C show the drainage basins and the drainage networks of River Ock and River Lambourn respectively.
- (a) Compare the annual hydrographs of the two rivers shown in Fig. 2A, and, with the aid of Figs. 2B and 2C, discuss **two** natural factors that may account for the differences. [6]
- (b) With reference to one type of human activity, explain how this may affect the hydrograph of River Lambourn. [2]
- (c) Explain how you will carry out field investigation to obtain the river discharge of each of the two rivers. [4]

## Urban Issues and Challenges

### 3 OR

Fig. 3 shows the differing residential population densities of Mexico City (a LDC city) and New York City (a DC city).

- (a) Using evidence from Fig. 3, explain the urban processes that can account for the differing population densities of Mexico City and New York City. [6]
- (b) Explain how you would carry out a pedestrian survey in a central business district (CBD). [6]

## Lithospheric and Hydrologic Processes, Hazards and Management

### 4 EITHER

Fig. 4 shows the Strahkov's model of weathering. Photograph C shows a braided river.

- (a) Define the term *basal surface of weathering* as shown in Fig. 4. [1]
- (b) Describe the relationship between climate and the depth of regolith shown in Fig. 4. [2]
- (c) Account for the differing depths of regolith between the semi-desert & desert climate and tropical rainforest climates. [8]
- (d) With reference to Photograph C, explain how some of the fluvial features of the braided stream are influenced by the climatic factor. [3]

## The Globalisation of Economic Activity and Urban Issues and Challenges

### 4 OR

Fig. 5 is a map of the Turku Science Park, which aims to be a platform for the growth of high-tech businesses in the city of Turku, Finland. Turku Science Park's main focal areas are biotechnology and info-communication technology (ICT).

- (a) What are *science parks*? Give **one** reason why countries like Finland develop them. [4]
- (b) Explain why the location within the city of Turku as shown in Fig. 5 is ideal for development of a science park. [5]
- (c) Using one named example of a DC city, assess **one** strategy the urban government undertook to attract investments into its declining inner-city areas. [5]

## Section B Physical Geography

Answer **one** question in this section.

### Lithospheric Processes, Hazards and Management

- 5 Either**
- (a) Describe and explain the nature of volcanic activity at destructive plate boundaries. **[9]**
- (b) How far do you agree that impacts of volcanic activities are largely determined by the accuracy of the prediction of the event? **[16]**
- 5 Or**
- (a) With the aid of labelled diagrams, describe the nature of **two** types of mass movement. **[9]**
- (b) To what extent can the effects of earthquake be mitigated? **[16]**

### Hydrologic Processes, Hazards and Management

- 6 Either**
- (a) What are the causes of river floods? **[9]**
- (b) With reference to examples, evaluate the effectiveness of methods used to mitigate the effects of river floods. **[16]**
- 6 Or**
- (a) With the aid of one or more diagrams, describe and explain the processes of erosion in a river channel. **[9]**
- (b) 'Human interventions in the catchment are the cause for conflicts in the management of transborder river basins.'
- Assess the validity of this statement. **[16]**

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

**The Globalisation of Economic Activity**

- 7 Either**      **(a)** Explain the concept of *a shrinking world* and its relationship with transport and information technologies. **[9]**
- (b)** 'Activities of transnational corporations (TNCs) are the main cause of economic development'. To what extent is this statement valid? **[16]**
- 7 Or**            **(a)** Explain what export processing zones are and why some governments develop them. **[9]**
- (b)** Discuss the need for supranational bodies and using example/s you have studied, assess how effective they have been. **[16]**

**Urban Issues and Challenges**

- 8 Either**      **(a)** Explain how state planning can influence the urban structure of cities today. **[9]**
- (b)** Assess whether suburban development has been harmful for large urban areas in the developed world. **[16]**
- 8 Or**            **(a)** Compare the nature of housing problems in large urban areas in DCs and LDCs. **[9]**
- (b)** Discuss why transport problems are effectively managed in some urban areas and not others. **[16]**

**.[End**