

**CATHOLIC JUNIOR COLLEGE**  
**In preparation for**  
**General Certificate of Education Advanced Level**  
**Higher 1**

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**GEOGRAPHY**  
**8812/01**

Paper 1

27 August 2014

3 hours

Additional Materials: Answer Paper  
1 Insert  
World Outline Map

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**READ THESE INSTRUCTIONS FIRST**

Write your class 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 fluid.

**Section A**

Answer **all four** questions.

**Section B**

Answer **ONE** question.

**Section C**

Answer **ONE** question.

Data Inserts contains all Photographs, Table and 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, you are to hand in **each question separately**.  
The number of marks is given in brackets [ ] at the end of each question or part question.

Indicate the questions attempted on the examination cover page provided and attach the cover page to Question 1.

**Start each question on a fresh sheet of paper. You will hand in each question separately.**

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This document consists of 6 printed pages.

## Section A

Answer **four** questions from this section.

### Lithospheric Processes, Hazards and Management

- 1** Figure 1A shows a series of earthquake hypocenters / focus of magnitude greater than 5.0 in the period 1964-2007 and the magnitude 9.0 Tohoku (Japan) earthquake in 2011.  
Figure 1B shows a choropleth map of the dead and missing persons in each province affected by the 2011 earthquake.
- (a) Define the term 'hypocentre'. [1]
  - (b) With reference to Fig. 1A, describe the characteristics and distribution of earthquake hypocentres found in this tectonic setting. [3]
  - (c) Using Fig. 1A, explain how the Tohoku Earthquake occurred on 11 March 2011. [4]
  - (d) Account for the high casualty rates in provinces shown in Fig. 1B. [4]

### The Globalisation of Economic Activity

- 2** Figure 2 shows the Containerized Cargo Flows along Major Trade Routes in 2007, the growth in cargo flows between 2000-2007, and the volume of imports and exports.
- (a) Describe the pattern of growth in containerised cargo flows from 2000-2007. [4]
  - (b) Explain the differences in the growth in containerised cargo flows for the three regions. [6]
  - (c) Suggest a problem associated with Asia's rapid growth of exports. [2]

### Hydrologic Processes, Hazards and Management

- 3 EITHER** Figure 6 shows different factors that influence infiltration.
- (a) (i) Describe the relationships shown in Figure 6. [1]
  - (ii) Explain the relationship shown in Figure 6. [3]
  - (b) Write an explanatory account of how you would carry out a survey to show how infiltration rates vary within this drainage basin. [6]

### Urban Issues and Challenges

- 3 OR** Figure 3 shows the urban structure of a part of a city in a Less Developed Country.
- (a) Compare the terms “slums” and “squatters”. [2]
  - (b) Using evidence from Figure 3, give reasons for the proliferation of self-built houses in this area. [2]
  - (c) Using evidence from Figure 3, suggest problems that squatters face in the city. [6]
  - (d) Suggest why squatter housing of different qualities exists within the same vicinity. [2]

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

- 4 EITHER** Figure 7 shows the mean monthly rainfall and mean monthly discharge at selected sites in the Nile drainage basin. Table 7 shows the mean monthly discharge for two months at the Aswan Dam on River Nile.
- (a) On Insert 2, complete the bar graph in Fig. 7 for the mean monthly discharge at the Aswan Dam. [1]
  - (b) (i) Describe the annual pattern of discharge at Khartoum. [3]
  - (ii) Explain why the annual pattern of discharge at Khartoum differs from that at the Aswan Dam. [5]
  - (c) Outline the ways in which freeze-thaw weathering and the weathering of limestone contribute to the transported load. [5]

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

- 4 OR**      Figure 4 shows the map of One-North, a science and media cluster in Singapore
- (a)      With reference to Figure 4, explain the benefits to firms by locating in One-North. [7]
- (b)      Explain how you would use primary methods of investigation to determine the impact of TNCs on the area that they have invested in. [7]

## Section B Physical Geography

Answer **one** question from this section

### Lithospheric Processes, Hazards and Management

- 5 EITHER**
- (a) Explain how mass movements may be triggered by volcanic eruptions and geological factors. [9]
  - (b) 'The impact of a volcanic eruption depends on the nature of its eruption.'  
To what extent do you agree with this statement? [16]
- 5 OR**
- (a) With the aid of diagrams, account for the formation of fold mountains and volcanoes along convergent plate boundaries. [9]
  - (b) Discuss the extent to which geological factors affect the development of limestone landforms and subsurface features. [16]

### Hydrologic Processes, Hazards and Management

- 6 EITHER**
- (a) With the aid of a diagram, describe and explain how sub-surface flows and stores may contribute to surface flows and stores. [9]
  - (b) With reference to examples, assess the extent to which magnitude and frequency determine the effects of river floods. [16]
- 6 OR**
- (a) Outline the circumstances under which deposition may take place within a river channel. [9]
  - (b) To what extent are the conflicts of interest that operate within, and between, riparian states largely environmental? [16]

Section **C** Human GeographyAnswer **one** question from this section**The Globalisation of Economic Activity**

- 7 EITHER**
- (a) Explain why Global Shift has been uneven throughout the world. [9]
- (b) "Globalisation is the answer to all countries' drive for economic development."  
Discuss the validity of this statement with specific examples. [16]
- 7 OR**
- (a) Explain the terms "small-medium sized enterprises", "specialisation" and "outsourcing", and how flexible production methods have led to the rise of small-medium sized enterprises [9]
- (b) "In the globalisation of economic activity, uneven development is inevitable."  
To what extent do you agree with this statement?  
Use examples to support your arguments. [16]

**Urban Issues and Challenges**

- 8 EITHER**
- (a) Compare the reasons for and the consequences of the growth of primate cities in Developed Countries and Less Developed Countries. [9]
- (b) "Gentrification is the most effective way to solve problems associated with inner city decay."  
To what extent do you agree with this statement? [16]
- 8 OR**
- (a) Suggest reasons why transport problems persist in the cities of Developed Countries. [9]
- (b) With reference to the various stages of urban development, discuss the changes of the Central City.  
You are reminded of the need to substantiate your points with examples. [16]