



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

GEOGRAPHY

Paper 1

8812/01

22 August 2016
3 hours

Additional Materials: Answer Paper
1 Insert
World Outline Map

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 **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.

This document consists of 5 printed pages.

[Turn over]

Section A

Answer **four** questions from this section.

Lithospheric Processes, Hazards and Management

- 1 Figure 1A shows the epicentre of the 2015 Gorkha (Nepal) earthquake. Figure 1B is an intensity map showing the affected areas in Nepal on April 25-26, 2015. Photograph A and B shows the damage to buildings and settlements.
- (a) With reference to Figure 1B, describe the extent of damage of the Gorkha (Nepal) earthquake. [2]
 - (b) Using Figure 1A, identify the type of plate boundary responsible for the earthquake in Nepal and suggest how the earthquake was generated. [4]
 - (c) Using Figure 1B, Photograph A and Photograph B, identify and explain possible factors that might have affected the intensity of damage caused by the Gorkha (Nepal) earthquake of 2015. [6]

The Globalisation of Economic Activity

- 2 Figure 2A shows the year that each member state joined the European Union. Figure 2B shows the labour costs per hour in euros by economic activity in 2015.
- (a) With reference to Figure A, describe the changes in membership of the European Union from 1952 to 2007. [3]
 - (b) Explain why a less developed country like Romania may want to join the European Union. [4]
 - (c) With reference to Figure 2B, to what extent can labour costs per hour describe the development gap in the European Union? [5]

Hydrologic Processes, Hazards and Management

- 3 **EITHER** Fig. 3A shows a hydrograph for a storm event in a catchment area in S. W. England (a temperate area). Fig. 3B shows the flood frequency curve for the river which flows through this catchment area.
- (a) Using Fig. 3A, describe and explain the relationship between the storm event and the discharge for the river. [4]
 - (b) Using Fig. 3B:
 - (i) state the recurrence interval of peak discharge F shown; [1]

- (ii) outline the relationship between peak discharge and the recurrence interval. [2]
- (c) Describe the methods you would use to measure discharge in a river. [5]

Urban Issues and Challenges

- 3 OR** Figure 4 shows selected current and future megacities from 2015 to 2030.
- (a) Describe the distribution of megacities in 2015. [3]
 - (b) Compare the characteristics of megacities in DCs and LDCs in 2030. [3]
 - (c) Explain the differences in the characteristics of megacities in DCs and LDCs in 2030. [6]

Lithospheric and Hydrologic Processes, Hazards and Management

- 4 EITHER** Photograph C shows a stretch of the Sungei Api Api River before modifications were made. Fig. 4 shows this river after some management strategies were undertaken as part of the ABC Waters Programme.
- (a) Describe the stretch of the river shown in Photograph C. [4]
 - (b) With reference to Fig. 4 and Photograph C, describe the management strategies undertaken and explain why they have reduced the risk of flooding on this river. [6]
 - (c) Explain how rivers and river valleys may contribute to the hazardous effects of volcanic eruptions. [4]

Globalisation of Economic Activity and Urban Issues and Challenges

- 4 OR** Figure 6 shows the abandoned Packard Automotive Plant in Detroit.
- (a) Using Figure 6, describe the features of inner city decline. [4]
 - (b) Explain how globalisation could have led to inner city decline. [4]
 - (c) With reference to Figure 6 and using examples that you have studied, describe and explain what the local government/authorities could do to counter inner city decline? [8]

Section B

Answer **ONE** question from this section.

Lithospheric Processes, Hazards and Management

- 5 EITHER**
- (a)** Explain why the nature of volcanic eruptions may vary globally [9]
 - (b)** With reference to case studies, discuss the extent to which the impacts of tectonic hazards are related to the level of economic development of the country affected. [16]
- 5 OR**
- (a)** With the aid of diagrams, explain the processes responsible for the formation and development of tower karst. [9]
 - (b)** Discuss how geology and climate influence the formation of a variety of granite landforms in tropical environments. [16]

Hydrologic Processes, Hazards and Management

- 6 EITHER**
- (a)** Describe and explain laminar, turbulent and helicoidal flow in a river. [9]
 - (b)** To what extent do local variations in river velocity result in different channel landforms? [16]
- 6 OR**
- (a)** Distinguish between throughflow, base flow and channel flow in the basin hydrologic cycle. [9]
 - (b)** To what extent are human activities more significant than physical factors in influencing river discharge? [16]

Section C

Answer **ONE** question from this section.

The Globalisation of Economic Activity

7 EITHER

- (a) Describe and account for the global production network of one TNC that you have studied. [9]
- (b) To what extent has globalisation changed the manufacturing and service sectors? [16]

7 OR

- (a) Describe and explain what strategies a state could employ to remain competitive in the global economy. [9]
- (b) “Globalization has not only lost its promise but is embittering many.” Dr. Walden Bello [16]

To what extent do you agree with this statement?

Urban Issues and Challenges

8 EITHER

- (a) Distinguish between counter-urbanisation, sub-urbanisation and re-urbanisation. [9]
- (b) Using examples, discuss the view that reducing the number of private cars alone would solve transport problems in urban areas. [16]

8 OR

- (a) Discuss the factors causing the segregation of social groups in urban areas. [9]
- (b) With reference to an example or examples of urban areas, assess the relative importance of the factors which have influenced the urban structure. [16]

**** END OF PAPER ****