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

GEOGRAPHY   **8812/01**
Paper 1   25 August 2015
                                                               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 a Venn diagram depicting how weathering processes may interact with one another. Fig. 1B shows a granite outcrop along Squeaky Beach in Victoria, Australia.

(a)   Distinguish between *weathering* and *erosion*.   [2]

(b)   Using example(s), explain the differences between hydration and hydrolysis as shown in Fig. 1A.   [3]

(c)   Annotate the main features of the granite outcrop in Fig. 1B.   [3]

(d)   Suggest two other weathering processes that may be occurring in Fig. 1B.   [4]

The Globalisation of Economic Activity

2   Figure 2 shows the location of industrial clusters in China in 2011.

(a)   Describe the distribution of industrial clusters in China.   [3]

(b)   Suggest two factors which may help to explain the distribution of industrial clusters in China.   [4]

(c)   Identify and explain the issues restricting the growth of the manufacturing sector in developing countries.   [5]

Hydrologic Processes, Hazards and Management

3   **EITHER**   Figure 3B shows the areal extent of the flood which occurred on 8 January 2005. Figure 3C shows the hydrograph for River Eden near Carlisie in January 2005.

(a)   With reference to Fig. 3C, describe how the discharge of River Eden responded to storm events in January 2005.   [4]

(b)   With reference to Fig. 3A-C, account for the 2005 flood.   [4]

(c)   Explain two hard measures that can be taken to prevent flooding in Carlisle.   [4]

Urban Issues and Challenges

3 OR   Figure 4A shows the population sizes of the 10 largest cities in the United Kingdom in 2011. Figure 4B shows the performance of London's economy in relation to the rest of the United Kingdom in 2013.

    (a) With reference to Figure 4A, what is the term given to cities like London?   [2]

    (b) With reference to Figure 4B, to what extent is London's development having a negative impact on other cities in the United Kingdom?   [5]

    (c) Briefly describe how you would investigate land-use changes in the CBD over time.   [5]

Lithospheric and Hydrologic Processes, Hazards and Management

4 EITHER   Figure 5A shows a stretch of a channel in an alpine mountainous area. Figure 5B shows a stretch of a channel in North Yorkshire, NE England.

    (a) Describe the bedload in Fig. 5A and 5B.   [2]

    (b) Explain why the nature of the bedload is different in both channels.   [4]

    (c) Suggest how you would select study sites and measure discharge of the channel in Fig. 5B.   [8]

Globalisation of Economic Activity and Urban Issues and Challenges

4 OR   Figure 6A shows the distribution of global cities around the world. Figure 6B shows four selected function-specific deviation scores of major Asian global cities. Figure 6C shows the breakdown of indicators used to calculate the function-specific deviation scores.

    (a) Describe the distribution of global cities as shown in Figure 6A.   [2]

    (b) Compare the function-specific deviation scores of Tokyo and Beijing as shown in Figure 6B.   [4]

    (c) Account for the similarities and differences between the function-specific deviation scores of Tokyo and Beijing as described in (b).   [8]

Section B
Answer **ONE** question from this section.

Lithospheric Processes, Hazards and Management

5 EITHER **(a)** Describe and explain the nature of tectonic activity along convergent plate boundaries. [9]

(b) Assess the importance of tropical climate in the development of granite landforms. [16]

5 OR **(a)** Compare the formation and characteristics of igneous and metamorphic rocks. [9]

(b) Discuss the view that a country's level of development would determine its effectiveness at mitigating tectonic hazards. [16]

Hydrologic Processes, Hazards and Management

6 EITHER **(a)** Explain how channel form may be affected by variations in sediment size and load in the channel. [9]

(b) The causes of floods are mainly due to natural factors. Discuss the truth of this statement in relation to examples. [16]

6 OR **(a)** How would landuse and climate influence the hydrologic cycle at the basin scale? [9]

(b) Building of dams creates more socio-economic, political and environmental problems than benefits. How far do you agree with this view? [16]

Section C
Answer **ONE** question from this section.

The Globalisation of Economic Activity

7 EITHER

(a) Distinguish between the tertiary, quaternary and quinary sectors of the economy. [9]

(b) In the UN list of Human Development Index (HDI) values for 187 countries in 2014, Norway, a DC in Europe, was ranked first with 0.94 and Niger, an LDC in Africa, was ranked last with 0.337. [16]

Assess the usefulness of the HDI and of one or more other indicators which may be used to measure development.

7 OR

(a) With reference to one TNC, describe its spatial organisation and its structure. [9]

(b) "The global economy works for about twenty percent of the world; for about eighty percent, it doesn't." – Kevin Danaher, Author and Anti-Globalization Activist

To what extent do you agree with the quote above? [16]

Urban Issues and Challenges

8 EITHER

(a) Explain the consequences of sub-urbanisation and counter-urbanisation on the central city in DCs. [9]

(b) To what extent is the urban structure of cities around the world today largely influenced by globalisation? [16]

8 OR

(a) Explain the social problems that result from the segregation of social groups in urban areas. [9]

(b) With reference to either (i) transport or (ii) housing problems, discuss the view that it is easier for DCs to manage urban problems than LDCs. [16]

**** END OF PAPER ****