HWA CHONG INSTITUTION
JC2 Preliminary Examinations
Higher 1

CANDIDATE NAME		**CT GROUP**	
CENTRE NUMBER		**INDEX NUMBER**	

GEOGRAPHY

8812/01

Paper 1

31 August 2015

Additional Materials: Answer Paper
1 Insert
World outline map

3 hours

READ THESE INSTRUCTIONS FIRST

Write your name and CT class clearly 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.

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

The insert contains all the Figures referred to in the question paper.

You should make reference to appropriate examples studied in the field or the classroom, even where such examples are not specifically requested by the question.

Sketch maps should be drawn whenever they serve to illustrate an answer.

At the end of the test, fasten all your work securely together.

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

Section A

Answer **all** the 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 Fig. 1A shows the locations of the 2010-2011 earthquakes in Christchurch, New Zealand. Fig. 1B shows the plate boundary in New Zealand and the location of Christchurch. Fig. 1C shows earthquake risks in New Zealand.

(a) With reference to Fig. 1A and 1B, describe and explain the location of the 2010-2011 earthquakes. [4]

(b) Suggest reasons for the differing casualty rate between the 2010 and 2011 events. [4]

(c) With reference to 1C, explain briefly how a hazard map reflecting earthquake risk can be constructed. [4]

The Globalisation of Economic Activity

2 Fig. 2 shows the size of financial systems in the world in 2010.

(a) Describe and explain the main features of Fig. 2. [6]

(b) Suggest what some of the responses of less developed countries (LDCs) to such a distribution in Fig. 2 may be. [6]

Hydrologic Processes, Hazards and Management

3 EITHER Fig 3A shows the relationship between channel slope and bankfull discharge. Fig. 3B shows the relationship between sediment load and slope.

(a) Describe the relationship between channel slope and bankfull discharge in Fig. 3A. [4]

(b) Explain the nature of meandering and braided channels in Figs. 3A and 3B. [8]

Urban Issues and Challenges

3 OR Fig. 4 shows the distribution of cities in the world in 2015.

(a) Define 'megacity' and describe the distribution of cities in Fig. 4. [4]

(b) Suggest reasons for the distribution of cities in Fig. 4. [4]

(c) Examine the extent of social impacts of megacity development. [4]

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

4 EITHER Fig. 5 shows a heavily silted river affected by mudflows in Sabah, East Malaysia and a description of the events leading up to the siltation.

(a) Describe the nature of mudflows. [2]

(b) With reference to Fig. 5 and information provided, explain how the mudflows in Sabah may have been formed. [4]

(c) Explain the how the mudflows may be associated with flash floods. [2]

(d) Examine the social and environmental impacts of such an event. [6]

The Globalisation of Economic Activity and Urban Issues and Challenges

4 OR Fig. 6 shows economic growth in India.

(a) Describe the changes in real GDP, both actual and estimated, between 2004 and 2015 in Fig. 6. [2]

(b) Suggest possible reasons for the changes outlined in (a). [6]

(c) Suggest why there may be 'questions looming' about the economic growth in India. [3]

(d) Explain the relationship between economic growth and urbanization. [3]

Section B Physical Geography

Answer **one** question from this section.

Lithospheric Processes, Hazards and Management

5 EITHER **(a)** Using Peltier's model, explain how climate affects weathering processes. [9]

(b) Examine the role of mineral composition and rock structure in the development of granite landforms. [16]

5 OR **(a)** Explain the relationship between seafloor spreading and the Plate Tectonic theory. [9]

(b) To what extent are landforms found along plate boundaries volcanic in nature? [16]

Hydrologic Processes, Hazards and Management

6 EITHER **(a)** Explain the relationship between channel velocity and fluvial erosion and transportation. [9]

(b) Floodplains naturally act as temporary storages of floodwaters and flooding in these areas should not be controlled. Discuss. [16]

6 OR **(a)** Explain how 'infiltration', 'throughflow' and 'percolation' differ and how they may be related. [9]

(b) Discuss the extent to which conflicts of interest in drainage basins can be fully resolved. [16]

Section C Human Geography

Answer **one** question from this section.

The Globalisation of Economic Activity

7 EITHER **(a)** Account for the emergence of the new international division of labour. [9]

(b) Evaluate the extent of the command and control relationship between Transnational Corporations and the countries they operate in. [16]

7 OR **(a)** Explain the locational trends of the service sector on different scales. [9]

(b) To what extent is the role of supranational bodies a key factor in a country's economic development? [16]

Urban Issues and Challenges

8 EITHER **(a)** Explain the sub-urbanisation process and its impacts. [9]

(b) To what extent is re-urbanisation a process that only occurs in developed countries? [16]

8 OR **(a)** Explain the nature and causes of inner city decline. [9]

(b) Assess the extent of housing issues in LDC cities and the strategies used to overcome the issues. [16]