



ANDERSON JUNIOR COLLEGE
JC2 H1 Geography Preliminary Examination
(2015)

H1 GEOGRAPHY

8812/01

Monday 14 September 2015 8.00 am – 11.00 am 3 hours

Additional Materials: 1 Insert
 World outline map

READ THESE INSTRUCTIONS FIRST

1. Write your name and class in the spaces provided below.
2. Write in dark blue or black pen.
3. You may use a soft pencil for any diagrams, graphs or rough working.
4. If you use more than one sheet of paper, fasten the sheets securely.
5. **Hand in Section A (Data Response Questions) separate from Sections B and C (Structured Essay Questions).**
6. 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, Photographs and Tables referred to in the questions.
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.
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, fasten all your work securely together.
The number of marks is given in brackets [] at the end of each question or part question.

Name: _____

Class: _____

Question Attempted	Marks
Section A:	
1	/12
2	/12
3 _____	/12
4 _____	/14
Section B:	
_____	/25
Section C:	
_____	/25
Percentage	<div style="border-left: 1px solid black; border-bottom: 1px solid black; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center;">100</div>

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 part of the granite landscape in the Matopos Hills in Zimbabwe, southern Africa. Photograph B shows part of the karst landscape by the river in Guilin, southern China.
- (a) Identity the landforms shown in Photograph A and B. With reference to Photographs A and B, briefly outline the key differences in the characteristic features of these landforms. [4]
 - (b) Differentiate the rock characteristics and the weathering processes that may have contributed to the production of the landforms as shown in Photograph A and B. [5]
 - (c) With reference to Photograph A, suggest how the landform may change over time. [3]

The Globalisation of Economic Activity

- 2 Figs 2A and 2B are political cartoons depicting some issues that have been exacerbated by trade liberalisation.
- (a) With reference to Fig. 2A, examine the view that free trade is not necessarily fair trade. [4]
 - (b) Describe the relationship between Corporate America and the workers that it has hired, as shown in Fig. 2B. [2]
 - (c) With reference to Figs 2A and 2B, explain how supranational organisations may be contributing to uneven development within and across countries. [6]

Hydrologic Processes, Hazards and Management

- 3 EITHER Fig. 3A shows a map of the Mississippi River basin. Fig. 3B shows the climographs at selected cities in the Mississippi River basin.
- (a) Using Fig. 3A, comment on the role of the dams in the Mississippi River basin. [2]
 - (b) Using Fig. 3B, compare the temperature and precipitation patterns for Denver and Memphis. [4]
 - (c) Outline the secondary data you would require, in addition to that shown in Figs 3A and 3B, to understand the flood risk in Memphis. [3]
 - (d) Briefly explain **two** possible impacts of flood in the Mississippi River basin. [3]

Urban Issues and Challenges

3 OR Fig. 4A shows Newcastle, New South Wales, Australia, which experienced gentrification in the inner city districts of Newcastle East and Cook's Hill in the 1980s and 1990s. Fig. 4B gives the results of a survey about residential preferences. Tables 1 and 2 give information about inner city residents.

- (a) In Fig. 4B, what was found to be the most important factor that influenced people to move to inner Newcastle? [1]
- (b) Use information from Tables 1 and 2 to show that inner Newcastle was gentrified between 1986 and 1996. [4]
- (c) Suggest reasons why Newcastle East and Cook's Hill were attractive to people looking to relocate, using information from the resources. [4]
- (d) Briefly describe how you would carry out a pedestrian count in the inner city districts of Newcastle East and Cook's Hill (location X) in Fig. 4A. [3]

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

4 EITHER Fig. 5 shows how a part of a drainage basin that is underlain by limestone may change over time.

- (a) Identify landform Y and landform Z in Fig. 5. [2]
- (b) Describe the changes in surface and sub-surface drainage over time, as shown in Fig. 5. [5]
- (c) Explain how the jointing pattern of limestone can have an influence on the form and formation of sub-surface cave networks. [5]
- (d) Briefly describe how the weathering of limestone affects the sediment load of the surface streams. [2]

The Globalisation of Economic Activity and Urban Issues and Challenges

4 OR Photograph C shows an aerial view of a part of suburban Sao Paulo in Brazil.

- (a) Explain fully why you might consider giving this photograph the title 'Social and economic inequalities in suburban Sao Paulo'. [8]
- (b) A development gap can be seen at different scales. How can the development gap be recognised at the global scale? [6]

Section B Physical Geography

Answer **one** question from this section.

Lithospheric Processes, Hazards and Management

- 5 EITHER**
- (a) Describe and explain how tectonic activities may result in mass movements. [9]
 - (b) To what extent is the theory of plate tectonics able to account for the global distribution of tectonic landforms and phenomena? [16]
- 5 OR**
- (a) Describe the differences between the Richter scale and the Mercalli scale. [9]
 - (b) To what extent is the prediction and management of volcanic eruptions easier than that of earthquakes? [16]

Hydrologic Processes, Hazards and Management

- 6 EITHER**
- (a) With the aid of a well-labelled diagram, describe and explain how channel morphology varies downstream. [9]
 - (b) Assess the relative importance of drainage basin characteristics in affecting channel discharge within a catchment area. [16]
- 6 OR**
- (a) Describe and explain how stream ordering, bifurcation ratio and drainage density can influence flooding risk within a drainage basin. [9]
 - (b) With reference to examples, critically assess the relative importance of financial resources in determining the success of flood management strategies. [16]

Section C Human Geography

Answer **one** question from this section.

The Globalisation of Economic Activity

- 7 EITHER**
- (a) Explain how the New International Division of Labour (NIDL) contributes to the deskilling, reskilling and multiskilling of the workforce across different places. [9]
- (b) 'Globalisation disconnects as much as it connects the world.'
How far do you agree with this statement? [16]
- 7 OR**
- (a) Describe and explain the usefulness of traditional and holistic indicators of development in reflecting a country's standard of living. [9]
- (b) What is 'global' about globalisation? Discuss the extent to which the outcomes of economic globalisation may be global in nature. [16]

Urban Issues and Challenges

- 7 EITHER**
- (a) Under what conditions do primate cities develop? [9]
- (b) To what extent is the bid-rent theory useful in explaining the functional zoning of cities? [16]
- 7 OR**
- (a) Explain the differences between the following pairs of terms: *urban sprawl and urban renewal* and *gentrification and decentralisation*. [9]
- (b) 'In this age of globalisation, the urban structure of cities is often determined by the global economy.'
Consider the validity of this statement. [16]

*******END OF PAPER*******