



ANDERSON JUNIOR COLLEGE

JC2 H1 Geography Preliminary Examination 2008

GEOGRAPHY
Higher 1
Paper 1

8812/ 01

Wednesday

10 September 2008

1.00 pm – 4.00 pm

3 hours

Additional Materials: Paper
1 Insert
World Outline Map

READ THESE INSTRUCTIONS FIRST

1. Write your name and class in the spaces provided below. Detach this page and attach it to your answer script.
2. Write in dark blue or black pen on both sides of the paper.
3. You may use a soft pencil for any diagrams, graphs or rough working.
4. 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.

INFORMATION TO CANDIDATES

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

All figures referred to in the questions are contained in the Insert.

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 and diagrams 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: _____

PDG: _____

Question Attempted	Marks
Section A:	
1	/12
2	/12
3	/12
4	/14
Section B:	
Qn:	/25
Section C:	
Qn:	/25
Total Marks	/100

This question paper consists of 5 printed pages

[Turn Over

Section A

Answer **four** questions from 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. 1 is a map showing tectonic features in western USA.

- (a) With reference to Fig.1,
 i. name the plate boundary shown at X
 ii. name the plate boundary shown at Y
 iii. name a volcano found in the area indicated on the map. [3]
- (b) Define what is meant by a fault. [1]
- (c) Suggest reasons for the distribution of earthquakes shown in Fig. 1. [4]
- (d) Describe the methods of prediction used in the management of the earthquake hazard. [4]

The Globalisation of Economic Activity

2 Fig. 2 shows the stages in the emergence of a newly industrialising economy.

- (a) State two characteristics of a newly industrialising economy (NIE). [2]
- (b) Describe the trend in the growth rate shown in Fig. 2. [2]
- (c) Explain what is meant by 'import substitution industries'. [2]
- (d) How can the globalisation of economic activity account for the development of NIEs? [6]

Hydrologic Processes, Hazards and Management

3 **Either** Fig. 3 shows the hydrological cycle of a small river basin.

- (a) Define the term *hydrological cycle* as it applies to a small river basin. [2]
- (b) Explain how throughflow and groundwater flow (base flow) occur. [4]
- (c) How can the abstraction (removal) and the storage of water by humans affect flows and stores within a drainage basin? [6]

Urban Issues and Challenges

- 3 Or** Study Fig. 4 which shows some of the main movements of people within and between settlements.
- (a) Identify each process shown by the three population movements in Fig. 4 and state if they are centrifugal or centripetal movements.
- i. Population movement 1
 - ii. Population movement 2
 - iii. Population movement 3
- [3]
- (b) Explain the reasons for the occurrence of population movement 3.
- [3]
- (c) Describe the impacts that may arise from population movements 1 & 3. How are the impacts different for each movement?
- [6]

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

- 4 Either** Fig. 5 shows hydrological processes during a storm.
- (a) (i) Using the information given in Fig.5, describe how the hydrological processes change during the storm.
- [3]
- (ii) Suggest reasons for the changes that you have described in (a)(i).
- [4]
- (iii) Describe and explain the contribution of direct precipitation into the channel during the storm.
- [2]
- (b) Outline how you would observe the soil movement on a slope and describe the methods you would use to examine these processes.
- [5]

The Globalisation of Economic Activity and Urban Issues and Challenges

- 4 Or** Table 1 shows the percentage of total population which is urban, and GDP for selected countries.
- (a) Describe the relationship between urban population and GDP.
- [2]
- (b) For one country with an urban population below 20%, account for the low urbanisation rate and GDP per capita.
- [6]
- (c) How may the trend shown in Table 1 change in the next 20 years? Explain your answer.
- [6]

Section B Physical Geography

Answer **one** question from this section.

Lithospheric Processes, Hazards & Management**5 EITHER**

- (a) Fig 6 shows material erupted from a volcano. Describe the nature of the erupted materials and explain how they may be hazardous. [9]
- (b) Using examples, explain why volcanic hazards have more severe effects in some areas than others. [16]

5 OR

- (a) Compare and contrast the characteristics of the three rock types. [9]
- (b) Using examples, discuss the extent to which the weathering of a rock is dependent upon climate [16]

Hydrologic Processes, Hazards & Management**6 EITHER**

- (a) What factors influence the total amount and nature of the sediment load transported by a river? [9]
- (b) Describe and assess the methods that can be employed to predict river floods. How can such predictions help to mitigate impact of flooding? [16]

6 OR

- (a) Explain what is meant, in a drainage basin, by the terms *drainage density* and *stream order*. [9]
- (b) With reference to an example or examples, examine how conflicts of interest may arise in the management of river catchments. [16]

Section C Human Geography

Answer **one** question from this section.

The Globalisation of Economic Activity

7 EITHER

- (a) In 2003, the Dr. Martens company moved production of its boots from the UK where a worker was paid \$490 a week, to China where the weekly wage was \$25. What other advantages may a location in LDCs offer to manufacturers apart from low labour costs? [9]
- (b) Explain the view that TNCs are an important part of the development process in LDCs. [16]

7 OR

- (a) Discuss the characteristics of a named example of a trading bloc which you have studied. [9]
- (b) Discuss how global economic change has brought about the growth in various economic activities along with new locational trends. [16]

Urban Issues and Challenges

8 EITHER

- (a) Describe the factors that may contribute to social segregation within cities. [9]
- (b) How far do you agree that bottom up approaches are more effective than top-down approaches in solving housing problems in LDCs? [16]

8 OR

- (a) Discuss the characteristics and functions of global cities. [9]
- (b) To what extent can the bid rent theory explain for urban structure? [16]