



RAFFLES INSTITUTION
Preliminary Examinations 2015

H1 GEOGRAPHY

8812/01

Paper 1

Duration: 3 hours

Additional material: Writing Paper
Insert 1
World Outline Map (to be supplied upon request)

READ THESE INSTRUCTIONS FIRST

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.

Write in dark blue or black pen.

You may use a soft pencil for any diagrams, graphs or rough working.

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

Insert 1 contains all the figures & photographs 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, fasten all your work securely together using the string provided.

This document consists of 6 printed pages including this page.

Section A

Answer **four** questions from this section.

Lithospheric Processes, Hazards and Management

1. Fig. 1A shows tectonic hazards in the Bay of Naples. Fig. 1B shows how the hazards can be managed.
 - (a) With reference to Fig. 1A, describe three different types of hazards that affect the people living in the area. [3]
 - (b) Discuss three ways that the locals are preparing for the eruption of Mount Vesuvius shown in Fig. 1B. [6]
 - (c) Suggest reasons why it might be difficult to manage an evacuation in a region such as the one shown in Fig. 1B. [3]

The Globalisation of Economic Activity

2. Fig. 2 shows known and suspected routes of e-waste dumping. E-waste dumping refers to the exportation of discarded electrical and electronic devices (eg. TVs & computers) to overseas locations.
 - (a) Identify the biggest exporter of e-waste based on Fig. 2. [1]
 - (b) Describe the patterns as shown on Fig. 2. [4]
 - (c) Suggest **three** possible reasons that could explain the globalisation of e-waste disposal. [7]

Hydrological Processes, Hazards, and Management

3. EITHER

Fig. 3 shows sketch maps of two drainage basins that have the same area

- (a) Using Strahler's method of stream ordering, label on Fig. 3 the stream order of each stream segment for Drainage basin A **and** for Drainage basin B and, in the boxes provided, state the stream order of each drainage basin. [4]
- (b) Explain how knowledge of stream ordering is useful when studying drainage basins. [2]
- (c) Explain the factors affecting drainage density in a drainage basin. [6]

Urban Issues and Challenges

3. OR

Fig. 4 shows the percentage urban population in 1950, 1975 and 2000 and the predicted percentage urban population in 2025.

- (a) In which year did the urban population in LDCs reach 40%? [1]
- (b) Using Fig. 4, compare the trends in percentage urban population in LDCs and DCs from 1975 to 2025. [4]
- (c) Using examples, suggest reasons for the increase in urbanisation in LDCs over time. [7]

Lithospheric Processes, Hazards and Management and Hydrological Processes, Hazards and Management

4. EITHER

Fig. 5 shows processes and types of mass movement that occur on slopes.

- (a) Describe what is meant by the terms *shear strength* and *shear stress*. [2]
- (b) Identify and briefly describe the type of mass movement that has the slowest rate of movement and lowest water content. [5]
- (c) Explain the role of triggering mechanisms in initiating mass movement on slopes. [4]
- (c) Explain how one type of mass movement in Fig. 5 might generate a flood further downstream. [3]

The Globalisation of Economic Activity / Urban Issues and Challenges

4. OR

Fig. 6 shows the location of Educuity, an education hub located in Nusajaya, in the State of Johor, Malaysia.

- (a) What is meant by the term “education hub”? [1]
- (b) Using information from Fig. 6, outline the reasons that make Nusajaya a good location for an education hub. [6]
- (c) Explain **three** possible policies in which the State government of Johor could have implemented to attract foreign educational institutions to locate in the Educuity. [7]

Section B Physical Geography
Answer **one** question from this section.

Lithospheric Processes, Hazards and Management

5. EITHER

(a) With the aid of a diagram, explain the main characteristics of constructive plate boundaries. [9]

(b) 'Prediction is the most effective strategy in the management of earthquakes.'

Discuss this statement. [16]

5. OR

(a) Briefly explain the role of triggering mechanisms in initiating different types of mass movement. [9]

(b) To what extent is the climate the main factor influencing the development of limestone landforms? [16]

Hydrological Processes, Hazards, and Management

6. EITHER

(a) With the aid of a diagram, explain the components of a storm hydrograph. [9]

(b) To what extent is climate an important factor in affecting discharge within catchment areas? [16]

6. OR

(a) With the aid of a diagram, describe the different pathways of water in a catchment system. [9]

(b) Using examples, discuss the issues related to the management of catchment areas within a country. [16]

Section C Human Geography

Answer **one** question from this section.

The Globalisation of Economic Activity

7. EITHER

- (a) Explain the main reasons for the growth of the service sectors in LDCs. [9]
- (b) With reference to one or more examples, evaluate how supranational bodies impact on national and regional economies. [16]

7. OR

- (a) Explain the processes of *de-industrialisation* and *re-industrialisation* in DCs. [9]
- (b) 'The Human Development Index (HDI) is one of the best measurements of development of a country.'
- To what extent do you agree? [16]

Urban Issues and Challenges

8. EITHER

- (a) Outline how the Bid Rent Model has limited application in explaining today's city structure. [9]
- (b) 'Suburbanisation has caused more harm than good.'
- How far do you agree? [16]

8. OR

- (a) Outline the causes of homelessness in large urban areas. [9]
- (b) Evaluate the reasons for and consequences of primate cities in DCs and LDCs. [16]

END
