



RAFFLES INSTITUTION  
Preliminary Examinations 2016

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**H1 GEOGRAPHY**

**8812/01**

**Paper 1**

Duration: 3 hours

Additional material: Writing Paper

Insert 1

World Outline Map (to be supplied upon request)

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**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.

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This document consists of 6 printed pages including this page.

### Section A

Answer **four** questions from this section.

#### Lithospheric Processes, Hazards and Management

1. Figure 1 shows some features associated with plate tectonics.
  - (a) Identify the features labeled X and W. [2]
  - (b) Discuss the processes occurring at Y and Z. [4]
  - (c) Explain how fold mountains are formed at tectonic plate margins. [6]

#### The Globalisation of Economic Activity

2. Fig. 2 shows the global value chain for Nutella, a chocolate confectionery product by the Ferrero Group, an agri-business TNC which has its headquarters in Alba, Italy.
  - (a) Identify the factory that is furthestmost from the home country of Nutella as depicted in Fig.2. [1]
  - (b) Describe and explain for the global distribution of factories producing Nutella. [5]
  - (c) Suggest reasons why Ferrero have may have sales office but no production plant in Asia for Nutella. [6]

## Hydrological Processes, Hazards, and Management

### 3. EITHER

Figure 3 shows the downstream changes in river characteristics.

- (a) With reference to the characteristics shown in Figure 3, account for the change in river velocity. [4]
- (b) With reference to Figure 3, account for the change in the characteristics of the sediment load downstream. [4]
- (c) Describe the type of fluvial erosional process that is most dominant in upstream regions. [4]

## Urban Issues and Challenges

### 3. OR

Table 1 shows the various components of the Urban Sustainable Transport Index of several cities in Asia.

- (a) With reference to Table 1, identify the city with the highest rate of private vehicle ownership. [1]
- (b) To what extent is there a relationship between GDP per person and private transport usage as depicted in Table 1 ? [4]
- (c) Outline **two** strategies that city authorities may carry out to encourage greater use of non-motorised transport for daily commuting to work. [3]
- (d) Using Table 1 and your own knowledge, give reasons that could help explain the very low usage of public transport in Dubai and Riyadh. [4]

## **Lithospheric Processes, Hazards and Management and Hydrological Processes, Hazards and Management**

### **4. EITHER**

Figure 4A and 4B show the stages of development of the drainage network in a region of granite and a region of Carboniferous Limestone over time respectively.

- (a) Describe the development in drainage density in both regions. [3]
- (b) Account for the way the drainage density in both regions developed. [6]
- (c) With reference to a location, describe the development of landforms in a region dominated by Carboniferous Limestone. [5]

## **The Globalisation of Economic Activity / Urban Issues and Challenges**

### **4. OR**

Fig. 5 shows the location of Gateway City, an exports processing zone outside Bangkok, Thailand.

- (a) With reference to Fig. 5, estimate the distance by road between Gateway City and the city of Bangkok. [1]
- (b) Suggest how the location of Gateway City in Fig. 5 may be explained by the Bid Rent Concept. [5]
- (c) Using evidence from Fig. 5, suggest why Gateway City is an ideal location for manufacturing and service industries. [8]

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

**Lithospheric Processes, Hazards and Management**

**5. EITHER**

(a) Describe the characteristics of earthquakes. [9]

(b) 'The success of management of tectonic hazards lies solely on prediction.'

Do you agree with this statement? [16]

**5. OR**

(a) Briefly explain the role of shear strength and shear stress in initiating different types of mass movement. [9]

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

**Hydrological Processes, Hazards, and Management**

**6. EITHER**

(a) Discuss the various channel processes. [9]

(b) 'The conditions that lead to the formation of meandering channels are easier to explain than braided channels.'

Discuss the validity of this statement. [16]

**6. OR**

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

(b) Using examples, assess the strategies used to manage floods. [16]

## Section C Human Geography

Answer **one** question from this section.

### The Globalisation of Economic Activity

#### 7. EITHER

- (a) With the help of examples, outline the role of the state in the economic development of newly industrialising economies (NIE). [9]
- (b) 'Technology has been the main prime mover of global services.'  
How far do you agree ? [16]

#### 7. OR

- (a) Outline the usefulness of the Human Development Index (HDI) as a measure of development. [9]
- (b) Evaluate the notion that growth of supranational bodies has created economic unevenness. [16]

### Urban Issues and Challenges

#### 8. EITHER

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

#### 8. OR

- (a) Outline the causes of transport problems in LDCs. [9]
- (b) Using one or more examples, assess the success of re-imaging of cities. [16]

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END

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