

<b>Name:</b>		<b>Index Number:</b>		<b>Class:</b>	
--------------	--	----------------------	--	---------------	--



## DUNMAN HIGH SCHOOL PRELIMINARY EXAMINATION Year 6

---

**HIGHER 1 GEOGRAPHY**

**8812/01**

**Paper 1**

**Thursday**

**15 September 2016**

**3 hours**

---

### **READ THESE INSTRUCTIONS FIRST**

Write your name and 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 an HB pencil for any diagrams or graphs.  
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 and the Photographs 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.

**Start each question on a fresh sheet of paper.**

At the end of the examination, fasten all your work securely together.  
The number of marks is given in the brackets [ ] at the end of each question or part question.

---

This document consists of **6** printed pages and **1** Insert.

8812/1/2016/Preliminary Examination

**[Turn over**

## Section A

Answer **four** questions from this section.

### Lithospheric Processes, Hazards and Management

- 1 Fig. 1 shows a map of the potential volcanic hazards in the vicinity of the Rincon de la Vieja volcano in Costa Rica. The hazard map is used to manage potential volcanic risk in the area.
- (a) With reference to Fig. 1 **only**, compare the characteristics of the two volcanic hazards shown. [3]
- (b) In the event of a possible eruption:
- (i) suggest why tephra eruptions may affect distant locations like Quebrada Granda and Canas Dulces; [1]
- (ii) suggest how local communities at Quebrada Grande and Canas Dulces may be affected by the tephra eruptions; [3]
- (iii) suggest one likely secondary volcanic hazard that residents at Birmania may experience. [1]
- (c) With reference to Fig. 1, outline how effective has the hazard map been used to manage potential volcanic risk in this area. [4]

### The Globalisation of Economic Activity

- 2 Fig. 2 shows a plan of an Industrial Estate in Thailand in 2008. The Industrial Estate Authority of Thailand (IEAT) is responsible for the development and establishment of industrial estates. Toyota and Isuzu are automobile transnational corporations from Japan.
- (a) What do you understand by the term *export processing zone*? [2]
- (b) With reference to Fig. 2 and your own understanding, explain why foreign TNCs such as Toyota and Isuzu may relocate to foreign countries. [4]
- (c) Discuss how you would conduct a questionnaire survey to determine the impact of the TNCs in a study you have made. [6]

### Hydrologic Processes, Hazards and Management

- 3 EITHER** Fig. 3A shows the changes to the surface area of the Aral Sea basin for the period 1960 to 2009. Fig. 3B shows the human activities of the area surrounding the Aral Sea and the impacts of the shrinking sea on these human activities between 1960 and 2001.
- (a) Based on the information in Fig. 3A **only**, describe the changes of the Aral Sea basin for the period 1960 to 2009. [2]
- (b) With reference to Fig. 3B, describe and explain the conflicts that have resulted from the management of the Aral Sea basin between 1960 and 2001. [7]
- (c) Suggest **three** measures that can be taken to resolve the conflicts you have outlined in (b). [3]

### Urban Issues and Challenges

- 3 OR** Photographs A, B and C were taken in London, UK, a developed country. Photograph A shows the West India Docks on a weekday in 1982. Photographs B and C show a part of London Docklands (Canary Wharf) before and after renewal efforts in 1983 and 2011 respectively.
- Fig. 4 shows a local poster against the renewal efforts in the docklands in 1983.
- Table 1 shows various key statistics of the London Docklands before and after renewal efforts in 1981.
- (a) What is urban renewal? [2]
- (b) From Photographs A & B, Table 1 and your own knowledge, suggest possible reasons for the decline of London Dockland by 1981 and describe its associated problems. [6]
- (c) Using Photograph C, Fig. 4 and Table 1, explain if the locals were justified in their resistance to regeneration efforts in the docklands. [4]

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

**4 EITHER** Fig. 5A shows a cross-section of a weathering profile in granite in the humid tropics and the permeability and porosity characteristics of the profile. This weathering profile is located on a vegetated hillside which slopes  $16^\circ$  to the horizontal. Fig. 5B shows flows of surface and subsurface water in zones A and B of the weathering profile (Fig. 5A) during a rainstorm.

**(a)** With reference to Fig. 5A:

**(i)** outline what 'deep weathering' is and identify the zone which deep weathering has extended to; [2]

**(ii)** describe and suggest reasons for the differences in the weathering profile between zones C and D. [5]

**(b)** With reference to Figs. 5A and 5B:

**(i)** explain the low flow rates of the surface flows; [2]

**(ii)** describe and suggest reasons for the difference in flow rates of the subsurface flows. [5]

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

**4 OR** Fig. 6A shows the locations of the maquiladoras found in Mexico in 2007. Maquiladoras are factories which have been established in Mexico to manufacture goods for cross-border trade.

Fig. 6B shows the growth of population in Mexico, and urbanisation trends in Mexico and Mexico City.

**(a)** Using Fig. 6A, identify the cities which hired the most and least number of employees in maquiladoras in 2007. [2]

**(b)** With reference to Fig. 6A, describe and suggest one reason for the spatial distribution of the maquiladoras found in Mexico. [4]

**(c)** With reference to Fig. 6B, describe the changes to the total population of Mexico, and urbanisation trends in Mexico and Mexico City between 1950 and 2000. [4]

**(d)** Using Figs. 6A and 6B, suggest reasons for the urbanisation trends observed in Mexico city and Mexico between 1980 and 2000. [4]

**Section B Physical Geography**

Answer **one** question from this section.

**Lithospheric Processes, Hazards and Management**

**5 EITHER**

- (a) Describe the main characteristics of earthquakes. [9]
- (b) With reference to examples, discuss the extent to which the impacts of an earthquake have been influenced by the magnitude of the event. [16]

**5 OR**

- (a) With reference to examples, distinguish between physical and chemical weathering. [9]
- (b) To what extent can past climate conditions explain the differences in granite landforms in the temperate and tropical areas? [16]

**Hydrologic Processes, Hazards and Management**

**6 EITHER**

- (a) Explain how rainfall events can result in variations in river discharge. [9]
- (b) Discuss the extent to which channel conditions can affect the development of the meandering and braided channel patterns. [16]

**6 OR**

- (a) With reference to examples, explain how human activities have influenced the occurrence of floods. [9]
- (b) 'In the management of water resources, conflicts of interest are greater and more difficult to resolve between riparian states than within riparian states'.  
With reference to an example or examples, discuss this view. [16]

### Section C Human Geography

Answer **one** question from this section.

#### The Globalisation of Economic Activity

**7 Either**

- (a) Compare how the growth in the service sectors differs between the developed countries (DCs) and newly industrialised economies (NIEs). [9]
- (b) Discuss the extent to which you agree that the Human Development Index (HDI) is effective in assessing a country's level of development. [16]

**7 OR**

- (a) Explain how technological changes and changes to a firm's structure contribute towards globalisation today. [9]
- (b) 'As a result of supranational organisations' actions, countries have been more adversely impacted.'

With reference to either a national economy or a regional grouping of economies, discuss the extent to which you agree with the statement. [16]

#### Urban Issues and Challenges

**8 EITHER**

- (a) Explain the causes of socio-economic polarisation experienced in urban areas. [9]
- (b) To what extent is a bottom-up approach more effective in managing housing problems? Discuss. [16]

**8 OR**

- (a) Describe and explain why the characteristics and functions of global cities can differ across space. [9]
- (b) Discuss the extent to which the bid-rent theory accounts for urban structure observed today. [16]