

Section A

Answer **all** 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 On 1 April 2014, an 8.2 magnitude struck off the northern coast of Chile generating a local tsunami. Fig. 1 shows the geographical location of the earthquake, tsunami watch and warning. Fig. 2 shows the tectonic location of the Iquique Earthquake.
- (a) Using Fig. 2, describe how the movement of the Nazca Plate resulted in the Iquique earthquake. [2]
- (b) Using a well-labelled diagram, explain how the tsunami was generated as a result of the Iquique earthquake. [6]
- (c) Suggest **two other** possible hazards that may arise from an earthquake. [4]

The Globalisation of Economic Activity

- 2 Fig. 3 shows the employment levels by industry in South Korea.
- (a) Define the following terms:
- (i) Industrialisation [1]
- (ii) Tertiarisation [1]
- (b) Describe the changes to South Korea's labour force between 1970 and 2000. [5]
- (c) Suggest **at least two reasons** why firms might choose to invest in South Korea between 1970 and 1990. [5]

Hydrologic Processes, Hazards and Management

- 3 EITHER Fig. 4 shows the Mekong River and the operational dams, dams under construction and planned dams along it.
- (a) With reference to Fig. 4, describe the locations and trend of dam construction along the Mekong. [4]
 - (b) Why do governments want to construct dams? [3]
 - (c) Suggest reasons for possible conflicts of interest over water supply in the Mekong. [5]

Urban Issues and Challenges

- 3 OR Fig. 5 shows the property prices of private condominiums near various Mass Rapid Transit (MRT) stations in Singapore after the construction of the Circle Line. Property prices are measured in terms of price per square foot (PSF).
- (a) Describe the range of property prices and the spatial patterns seen in Fig. 5. [4]
 - (b) What are some of the limitations of the Bid-Rent Theory that must be considered for your description in (a)? [8]

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

- 4 EITHER Fig. 6 shows the drainage network of an area underlain by granite.
- (a) Study Fig. 6 and calculate the basin's
 - (i) highest stream order [1]
 - (ii) drainage density [1]
 - (b) Describe the characteristics of granite. [3]
 - (c) Suggest how the characteristics described in (b) may influence the development of the drainage basin. [4]
 - (d) Describe how you would carry out fieldwork to measure the discharge of tributary A in Fig. 6. [5]

The Globalisation of Economic Activity and Urban Issues and Challenges

- 4 OR Fig. 7A shows a map of Singapore's CBD in 2008 and the proposed Marina Bay extension of the CBD.
Fig. 7B shows features of Marina Bay.
Fig. 7C shows a view of Marina Bay.
- (a) (i) With reference of Fig. 5A, describe the changes that have taken place in Singapore's CBD in 2008 and provide a reason for the location selected for extension of the CBD. [2]
 - (ii) Suggest a reason for the location selected for extension of the CBD. [2]
 - (b) How has good governance in Singapore has contributed to the growth of the CBD? [4]
 - (c) Using Figs 5A, 5B and 5C, suggest how some of the renewal initiatives in the Marina Bay area may enhance Singapore's global city status. [6]

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

Lithospheric Processes, Hazards and Management

5 EITHER

- (a) With the aid of well-labelled diagrams, explain how Plate Tectonics Theory can account for the formation of fold mountains and island arcs at convergent plate boundaries. [9]
- (b) 'Physical weathering occurs mainly at high latitudes while chemical weathering is confined to low latitudes'. Assess the validity of this statement. [16]

5 OR

- (a) Describe and explain the formation of limestone features in the Tropics. [9]
- (b) Discuss the extent to which human activities are the main factors in causing slope failure? [16]

Hydrologic Processes, Hazards and Management

6 EITHER

- (a) Describe the processes of fluvial erosion. [9]
- (b) Distinguish between meanders and braided streams. What are the reasons for these channels to develop differently? [16]

6 OR

- (a) With the aid of diagrams, explain how physical and anthropogenic factors influence storm hydrographs. [9]
- (b) To what extent are hard engineering strategies essential in flood management? [16]

Section C Human Geography
Answer **one** question from this section

The Globalisation of Economic Activity

7 EITHER

(a) Describe and explain the concept of the development gap. [9]

(b) 'Developed countries (DCs) benefit the most from globalisation.' [16]

Examine the validity of this statement.

7 OR

(a) Describe and explain the characteristics of transnational corporations. [9]

(b) Discuss some of the ways in which firms seek to ensure their competitive edge in the global economy. [16]

Urban Issues and Challenges

8 EITHER

(a) Compare current urbanisation trends in DCs with those in LDCs. [9]

(b) Assess the success of attempts made to manage problems associated with rapid urban growth in less developed countries (LDCs). [16]

8 OR

(a) Describe the causes of inner city decline. [9]

(b) Using examples, discuss the extent to which regeneration and re-imaging of cities counteract the decline of urban areas in DCs. [16]

END OF PAPER