

Section A

Answer **four** questions from this section.

Lithospheric Processes, Hazards and Management

- 1 Fig. 1A shows an oblique view of the principal Hawaiian Islands. Fig. 1B shows three of the five volcanoes that form the island of Hawaii.
- (a) Define the term 'hotspot'. [2]
 - (b) With reference to Fig. 1B, account for the different ages of volcanoes. [4]
 - (c) Describe and account for the eruptive style of volcanoes in the Hawaiian Island chain. [6]

The Globalisation of Economic Activity

- 2 Figs 2A and 2B show two maps of countries sized according to their pharmaceutical expenditures and exports.
- (a) Compare the patterns in expenditure and exports seen in both maps. [4]
 - (b) Account for the patterns shown in Figs 2A and 2B. [5]
 - (c) Suggest how differently the map in Fig. 2B might look if intra-European Union (EU) trade was taken into account, and give reasons for your answer. [3]

Hydrologic Processes, Hazards and Management

3 EITHER

Photographs 3A and 3B shows aerial images of part of the Kallang River before and after its restoration.

- (a) Describe how the Kallang River has changed before and after restoration. [4]
- (b) Briefly explain **two** possible reasons for the restoration of the Kallang River. [2]
- (c) Identify the main channel pattern seen in Photograph 3A and explain how it forms. [6]

Urban Issues and Challenges

3 OR

Fig. 3 shows a map that visualises the racial distribution and population density of Brooklyn, New York, United States of America.

- (a) With reference to Fig. 3, describe the patterns of racial distribution. [3]
- (b) Account for the pattern of social segregation observed. [4]
- (c) Describe how you would conduct a pedestrian count along Flatbush Avenue. [5]

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

4 EITHER

Fig. 4 represents the long-profile of the River Rhine.

- (a)** Describe the main features of the long-profile of the River Rhine. [4]
- (b)** Explain how and why rock slides can occur on slopes along the Alpine Rhine. [4]
- (c)** Explain how you would make field measurements of the velocity of a stream. [6]

The Globalisation of Economic Activity and Urban Issues and Challenges

4 OR

Tables 4A and 4B shows the top global cities of today and the rising cities of tomorrow according to A. T. Kearney's 2014 Global Cities Index and Emerging Cities Outlook.

- (a)** Define the term 'global city'. [2]
- (b)** With reference to both tables, describe the trends observed in the Global Cities Index and the Emerging Cities Outlook. [4]
- (c)** Account for the growth of emerging cities in Table 4B. [4]
- (d)** What are some of the possible impacts of growth of these emerging cities in less developed countries? [4]

Section B Physical Geography

Answer **one** question from this section.

Lithospheric Processes, Hazards and Management

5 EITHER

- (a) With the aid of well-annotated diagrams, explain the formation of various tectonic landforms found at convergent margins. [9]
- (b) Assess the extent to which weathering and the removal of weathered material are significant in the development of limestone landforms. [16]

5 OR

- (a) Describe Peltier's model and explain how useful it is in understanding the relationship between climate and weathering. [9]
- (b) With reference to examples, discuss the main factors contributing to effective earthquake hazard management. [16]

Hydrologic Processes, Hazards and Management

6 EITHER

- (a) Explain how braided river patterns are formed and the conditions necessary to form them. [9]
- (b) 'Dams are the most effective way to manage river basins'. To what extent do you agree with the statement? [16]

6 OR

- (a) Explain how urbanisation can alter the drainage basin hydrological cycle. [9]
- (b) Assess the extent to which floods can be predicted and their impacts mitigated. [16]

Section C Human Geography

Answer **one** question from this section.

The Globalisation of Economic Activity

7 EITHER

- (a) With the help of examples, explain the role of regional blocs. [9]
- (b) To what extent is the new international division of labour the outcome of the decisions of transnational corporations? [16]

7 OR

- (a) Explain the role of the quaternary sector and account for their growth and internationalisation. [9]
- (b) Globalisation is closing the development gap. To what extent do you agree with this statement? [16]

Urban Issues and Challenges

8 EITHER

- (a) Explain the role of centrifugal and centripetal forces in the central city. [9]
- (b) Discuss the extent to which strategies to manage housing problems in urban areas of less developed countries have been effective. [16]

8 OR

- (a) With reference to examples, explain the causes and impacts of homelessness in urban areas. [9]
- (b) Using examples, assess the extent to which urban reimagining has been able to ameliorate the problem of inner city decline. [16]