



PIONEER JUNIOR COLLEGE
PRELIMINARY EXAMINATION 2015
HIGHER 1

GEOGRAPHY

8812/01

Paper 1

September 2015
3 hours

Additional Materials: Answer Booklet / Paper
1 Insert
World Outline Map

READ THESE INSTRUCTIONS FIRST

If you have been given an Answer Booklet, follow the instructions on the front cover of the Booklet.
Write your Centre number, index number and name on all the work you hand in.
Write in dark blue or black pen on both sides of the paper.
You may use a soft pencil for any diagrams, graphs or rough working.
Do not use staples, paper clips, highlighters, glue or correction fluid.

Section A

Answer **four** questions^[M1].

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.
All Figures and the Photograph referred to in the questions are contained in the Insert.
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.
Sketch maps should be drawn whenever they serve to illustrate an answer.

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

This document consists of **6** printed pages.

Section A

Answer **four** questions from this section.

Questions 1 and 2 carry 13 marks each, and Questions 3 and 4 carry 12 marks each. You should allocate your time accordingly.

Lithospheric Processes, Hazards and Management

- 1 Fig. 1A shows the global distribution of earthquake depths for the last one hundred years. Fig. 1B shows the liquefaction hazard in the communities of Alameda, Berkeley, Emeryville, Oakland, and Piedmont for a magnitude 7.1 earthquake on the Hayward fault (West Coast of the USA).
- (a) Compare the patterns of earthquakes depths in Zone A and Zone B shown in Fig. 1A. [4]
- (b) Account for the shallow earthquakes ~~occurs~~ occured along the east and west coast of North America shown in Fig. 1A. [4]
- (c) Fig. 1B shows the (earthquake) liquefaction hazard map in parts of California. Outline the method and information required to construct such a map. [5]

The Globalisation of Economic Activity

- 2 Fig. 2 shows the spatial organisation of vehicle production by Japanese TNCs in Asia for 2010.
- (a) Define the term, 'new international division of labour'. [3]
- (b) With reference to Fig. 2, describe the spatial organisation of Japanese automobile TNCs in Asia. [5]
- (c) Suggest reasons for the pattern of spatial organisation of Japanese automobile TNCs in Asia that you have described in (b). [5]

Hydrologic Processes, Hazards and Management

3 Either

Fig. 3A shows river regimes for the Murray-Darling river basin in SE Australia for recent years compared to the long-term average. Table 1 shows average monthly rainfall and the mean temperature variation from the average between 1995 and 2007 for the Murray-Darling river basin.

- (a) What is meant by the term 'river regime'? [2]
- (b) Using Fig. 3A, examine the extent to which total monthly flow of the Murray-Darling river between 2006 and 2008 differs from the long-term average. [4]
- (c) Suggest reasons for the occurrence of severe water shortages in the basin between 2003 and 2007. [6]

Urban Issues & Challenges

3 Or

Fig. 3B shows a photograph of part of a shanty town (squatter settlement) in a city in Africa in 2011.

- (a) Describe the features of the shanty town as shown by Fig. 3B. [3]
- (b) With reference to Fig 3B, outline **two** ways in which quality of life could be improved for the residents. [4]
- (c) Suggest reasons why solving the problems of shanty towns (squatter settlements) can be difficult in a *slum of despair*. [56]
[M2]

Lithospheric and Hydrologic Processes, Hazards and Management

4 Either

- | Fig. 4A shows a photograph of a river channel.
- | (a) Name the type of channel shown in Fig. 4A. [1]
- | (b) Draw a diagram of the channel shown in Fig. 4A, labelling its main features. [3]
- | (c) Explain how channels such as that shown in Fig. 4A are formed. [4]
- | (d) Examine how processes in the valley side slope may affect the channel in Fig. 4A. [4]

The Globalisation of Economic Activity & Urban Issues & Challenges

4 Or

Fig. 4B shows a photograph of urban renewal in London Docklands, UK, in 2007.

- (a) Explain what the term, 'urban re-imaging' means. [3]
- (b) With reference to Fig. 4B, describe 3 pieces of evidence that indicate that urban renewal had taken place in the area. [3]
- (c) Outline **two** reasons why TNCs and **two** reasons why residents may be attracted to locate in developments such as those shown in Fig. 4B. [6]

Section B Physical Geography

Answer **one**^[M3] question from this section.

Lithospheric Processes, Hazards and Management

5 EITHER

- (a) Using a well-annotated diagram, describe how the igneous and sedimentary rocks can be formed at the various plate margins. [9]
- (b) 'Biological weathering has a major influence on the nature of regolith'. To what extent is this true? [16]

5 OR

- (a) Describe the materials that are erupted from a volcano and explain how they can be hazardous. [9]
- (b) To what extent can the impacts of volcanic hazards be reduced, by effective planning, both during and after the event? [16]

Hydrologic Processes, Hazards and Management

6 EITHER

- (a) With the aid of a well-annotated diagram, describe the main inputs, outputs, transfers and stores of the hydrological cycle for an *un-vegetated* drainage basin. [9]
- (b) 'Human activities may result in low flows and reduced stores in a drainage basin system'. With reference to specific examples, to what extent is this statement true? [16]

6 OR

- (a) Describe how the discharge of a typical stream may respond to a rainfall event in the drainage basin. [9]
- (b) Examine how the characteristics of drainage basins affect their response to rainfall. [16]

Section C Human Geography

Answer **one** [M4] question from this section.

The Globalisation of Economic Activity

7 EITHER

- (a) Describe and explain how social and economic inequalities can be measured effectively. [9]
- (b) With reference to one or more examples, evaluate the role of the government in a country's development. [16]

7 OR

- (a) Describe and explain the concepts of 'global shift' and 'core and periphery'. [9]
- (b) With reference to examples, to what extent is industrial growth in newly industrialised countries (NIEs) linked to deindustrialisation in DCs? [16]

Urban Issues & Challenges

8 EITHER

- (a) Describe and explain the terms, 'bid-rent' and 'functional zoning'. [9]
- (b) Assess the extent to which distance from the CBD affects the location of firm activities today. [16]

8 OR

- (a) Define and distinguish between, 'world cities' and 'primate cities'. [9]
- (b) With reference to examples, discuss the advantages and disadvantages for countries that are undergoing urban growth. [16]

End