



MERIDIAN JUNIOR COLLEGE  
PRELIMINARY EXAMINATION  
Higher 1

# H1 Geography

**8812/01**

Paper 1

**16 Sept 2015**

**3 Hours**

Additional Materials: Answer Paper  
1 Insert  
World outline map

## READ THESE INSTRUCTIONS FIRST

Write your name, civics group and index number 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.

### Section B

Answer **one** question.

### Section C

Answer **one** question.

Diagrams and sketch maps should be drawn wherever 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 this **cover sheet** and all your work securely together in **chronological order**.

The number of marks is given in the brackets [ ] at the end of each question or part question.

This document consists of 5 printed pages and 1 blank page.

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Index number: \_\_\_\_\_

Qn no. (Section A)	Marks	Qn no. (Section B)	Marks	Qn no. (Section C)	Marks
1		5 Either / Or*		7 Either / Or*	
2		6 Either / Or*		8 Either / Or*	
3 Either / Or*					
4 Either / Or*					
Total					

\*Please **circle** the question number attempted and **delete** Either / Or accordingly

## Section A

Answer **four** questions from this section.

### Lithospheric Processes, Hazards and Management

1. Photograph 1 shows a road in the **limestone** region of Warren County, Kentucky, that collapsed on February 25, 2002.
  - (a) Briefly describe the characteristics of limestone and how it influences the chemical weathering of limestone. [3]
  - (b) Provide a geomorphological account for the collapse of the road. [6]
  - (c) Briefly explain the formation of limestone pavements. [3]

### The Globalisation of Economic Activity

- 2 Fig. 1 shows the distribution of Ferrero Group's operation in Nutella production.
  - (a) Using Fig. 1, describe the distribution of Ferrero Group's production network for Nutella. [4]
  - (b) Outline the reasons for the distribution described in (a). [8]

### Hydrologic Processes, Hazards and Management

- 3 **Either** Fig. 2 shows the drainage basin of the Rhone River in Europe and the river regime at selected locations along the river.
  - (a) Describe the possible differences in channel morphology between Scion and Beaucaire. [4]
  - (b) Give 1 reason why the shapes of the 2 hydrographs at Lyons (Saone and Rhone) are different. [2]
  - (c) Describe the steps you would take to obtain the values of discharge for the River Rhone at Scion. [6]

### Urban Issues and Challenges

- 3 **Or** Fig. 3 shows a model of urban development based on some cities in Asia.
  - (a) Describe the location and extent of the areas experiencing urban sprawl in Fig. 3. [3]
  - (b) Using Fig. 3 and your own knowledge, explain the impact of urban sprawl shown in Fig. 3. [4]
  - (c) Describe how you would delimit the CBD region of the major city through landuse mapping. [5]

### Lithospheric and Hydrologic Processes, Hazards and Management

- 4 **Either** Fig. 4 shows some factors affecting processes operating on a slope.
- (a) Account for the overland flow likely to be experienced at locations A and B. [6]
  - (b) Using the factors shown in Fig 4, explain the influence of climate on slope stability. [8]

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

- 4 **Or** Fig. 5A shows a map of Singapore's CBD in 2008 and the proposed Marina Bay extension of the CBD.  
Fig. 5B shows features of Marina Bay.  
Fig. 5C shows a view of Marina Bay.
- (a) With reference of Fig. 5A, describe the extension of Singapore's CBD and provide a reason for the location selected for extension of the CBD. [4]
  - (b) Explain **two** ways in which good governance in Singapore has contributed to the growth of the CBD. [4]
  - (c) Using Figs 5A, 5B and 5C, suggest why the Marina Bay area may enhance Singapore's global city status. [6]

## Section B

Answer **one** question from this section.

### Lithospheric Processes, Hazards and Management

**5 Either**

- (a) Provide an account of the evidence for the plate tectonics theory. [9]
- (b) To what extent can the variety of granite landforms be attributed to the characteristics of the rock? [16]

**5 Or**

- (a) Explain how cockpit karst and tower landscapes may have formed. [9]
- (b) With reference to specific examples, critically evaluate the effectiveness of strategies that have been employed to reduce the impacts of earthquakes. [16]

### Hydrologic Processes, Hazards and Management

**6 Either**

- (a) With the aid of a diagram or diagrams, explain the influence of relief and climate on overland flow in a drainage basin. [9]
- (b) Critically evaluate the view that the variety of channel patterns is attributed to conditions outside the channel rather than those within the channel. [16]

**6 Or**

- (a) Explain how Hjulstrom's curve may be used to explain the differences in river processes between upstream and downstream locations along a river. [9]
- (b) With reference to one or more examples, assess the success of strategies adopted to manage the impacts of flood hazards in both DCs and LDCs. [16]

### Section C

Answer **one** question from this section.

#### The Globalisation of Economic Activity

##### 7 Either

- (a) Explain the advantages for manufacturing and related services of locating in a purpose-built industrial area such as Science Parks and Export Processing Zones (EPZs). [9]
- (b) Explain the term NIDL and discuss the view that NIDL has led to development in the global economy. [16]

##### 7 Or

- (a) Differentiate between the terms tertiary, quaternary and quinary, as they are applied to the service sector of the economy and briefly account for their recent growth. [9]
- (b) The state plays an important role in the location of economic development. To what extent do you agree with this statement? [16]

#### Urban Issues and Challenges

##### 8 Either

- (a) With the use of examples, account for housing problems in cities of DCs and LDCs. [9]
- (b) To what extent are transport problems in cities difficult to overcome? [16]

##### 8 Or

- (a) Briefly explain how Bid Rent Theory can be used in understanding the landuse patterns of cities. [9]
- (b) Discuss the nature and extent of social problems found in cities in both Developed Countries (DCs) and Less Developed Countries (LDCs). [16]

**Blank Page**