



MERIDIAN JUNIOR COLLEGE
PRELIMINARY EXAMINATION
Higher 1

H1 Geography

8812/01

Paper 1

14 Sept 2016

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 A shows an event that took place in 2014 in a rural area underlain by limestone in Kentucky, USA.
 - (a) Identify and describe the nature of the mass movement shown on the left side of Photograph A. [4]
 - (b) Suggest a possible reason for the occurrence of the mass movement event shown on the left side of Photograph A. [4]
 - (c) Describe the formation of one other limestone landform that is likely to be found near the site of Photograph A. [4]

The Globalisation of Economic Activity

- 2 Table 1 shows the top TNCs in banking and financial services in 2011.
 - (a) Describe the characteristics of the TNCs shown in Table 1. [3]
 - (b) Explain why TNCs operate in a wide variety of countries. [4]
 - (c) Suggest how the role of the state may influence the rise of banking and financial services in Singapore. [5]

Hydrologic Processes, Hazards and Management

- 3 **Either** Fig. 1 shows the hydraulic geometry of Dartmoor streams. Photograph B shows a stream in Johor, Malaysia.
 - (a) Using data in Fig. 1, describe and account for the changes in channel efficiency as bankfull discharge increases from 0.2 cumecs to 90 cumecs. [6]
 - (b) Describe the steps you would take to obtain the values of discharge for the the stream shown in Photograph B. [6]

Urban Issues and Challenges

- 3 Or** Fig. 2 show low, middle and high income areas of the cities of São Paulo, Brazil (a LEDC) and Chicago, USA (a MEDC).
- (a)** Outline the differences in the distribution of low income areas in the two cities. [3]
 - (b)** Suggest reasons for the location of high income areas in cities such as São Paulo and Chicago. [4]
 - (c)** Describe how you would conduct a pedestrian count on the type of commuters within the CBD of São Paolo. [5]

Lithospheric and Hydrologic Processes, Hazards and Management

- 4 Either** Fig. 3 shows the relationship between river channel patterns and bed material.
- (a)** With the help of Fig. 3, state the type of channel pattern expected to develop on bed material comprising of 20% sand and gravel, 10% solid rock, and 70% clay and organic matter. [1]
 - (b)** Explain the significance of the nature of bed material in the formation of River Z and River Y. [8]
 - (c)** Explain how the occurrence of tectonic events may contribute to the formation of rivers such as that of River Z. [5]

The Globalisation of Economic Activity and Urban Issues and Challenges

- 4 Or** Fig. 4 shows global distribution of percentage change in Gini Coefficient.
- (a)** Describe and account for the global distribution of change in Gini Coefficient as seen in Fig. 4. [7]
 - (b)** Assess the usefulness of Fig. 4 in showing uneven development in the world. [7]

Section B

Answer **one** question from this section.

Lithospheric Processes, Hazards and Management**5 Either**

- (a) Differentiate between the terms “block disintegration”, “spheroidal weathering” and “hydrolysis”. [9]
- (b) To what extent can the variety of granite landforms be attributed to the geology of the rock itself? [16]

5 Or

- (a) With the aid of an appropriate diagram, describe the role of plate tectonics in the rock cycle. [9]
- (b) Critically examine the view that the impacts of tectonic hazards are worse in LDCs than DCs. [16]

Hydrologic Processes, Hazards and Management**6 Either**

- (a) Explain how deforestation within its drainage basin can affect the water quality and water quantity of a river. [9]
- (b) To what extent do you agree that the variety of channel patterns is attributed to conditions within the river channel itself? [16]

6 Or

- (a) Explain how Schumm’s model may be used to explain the differences in river processes between upstream and downstream locations along a river. [9]
- (b) How far do you agree that flood abatement strategies are more effective than flood protection strategies in the management of flood hazards? [16]

Section C

Answer **one** question from this section.

The Globalisation of Economic Activity**7 Either**

- (a) Describe how the world has become more spatially interdependent and functionally integrated. [9]
- (b) Discuss the command and control relationship between TNCs and the countries they operate in. [16]

7 Or

- (a) Explain how the New International Division of Labour (NIDL) has aided in the development of Newly Industrialising Economies (NIEs). [9]
- (b) Discuss the view that globalisation is global in its impacts. [16]

Urban Issues and Challenges**8 Either**

- (a) Explain the causes of housing problems in cities. [9]
- (b) Discuss the extent to which housing problems are difficult to overcome. [16]

8 Or

- (a) Describe gentrification and explain the impacts of gentrification. [9]
- (b) 'Urbanisation is a past process, not a current one.' Discuss the validity of this statement. [16]

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