



ST ANDREW'S JUNIOR COLLEGE
Preliminary Examinations
Higher 1

Geography
Paper 1

8812/01

31 August 2016

3 hrs

Additional Materials: 1 Insert
World Outline Map

READ THESE INSTRUCTIONS FIRST

Write your name and class 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 paper clips, highlighters, glue or correction fluid.
Begin each question on a fresh page.

Section A

Answer **four** questions.

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.
The Insert contains all the Figures referred to in the questions.
You should make reference to appropriate examples studied in the field or the classroom, even where such examples are not specifically requested by the questions.
Diagrams and sketch maps should be drawn whenever they serve to illustrate an answer.
You are reminded of the need for good English and clear presentation in your answers.
The number of marks is given in brackets [] at the end of each question or part question.

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

[Turn Over

Section A (DRQ)

Answer **four** questions from this section.

Lithospheric Processes, Hazards and Management

- 1 Fig. 1 shows some of the features associated with plate tectonics.
- (a) Identify the features shown at A and B. [2]
 - (b) Using Fig. 1, explain the processes occurring at the plate boundary leading to the formation of feature B. [4]
 - (c) With the aid of diagrams, describe and explain the differences in the volcanic activities found near features A and B respectively. [6]

Globalisation of Economic Activity

- 2 Fig. 2 shows the global variations in Gross National Income (GNI) per capita in 2010.
- (a) Give the meaning of *development gap*. With the help of Fig. 2, describe the development gaps between different regions of the world. [3]
 - (b) Using Fig. 2 and your own knowledge, explain **two** reasons why development gaps are likely to persist. [4]
 - (c) Explain the ways in which the Human Development Indicator (HDI) is a more useful measure of development than the GNI. [5]

Hydrologic Processes, Hazards and Management

3 EITHER

Fig. 3 shows some aspects of river control on the River Yangtze in China today.

- (a) Before the Three Gorges Dam was completed, the section of the river marked F flooded regularly. Suggest and explain **two** methods of channel management within Area F to reduce flooding. [4]
- (b) Assume that a group of students has been tasked to measure infiltration rates at different sites within Area F. Outline the steps that they should take to measure the infiltration rate at each of their chosen sites. [4]
- (c) Identify and explain **two** possible conflicts between the users of the River Yangtze and its valley, following the completion of the Three Gorges Dam. [6]

Urban Issues and Challenges

3 OR

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Lithospheric & Hydrologic Processes, Hazards and Management**4 EITHER**

Fig. 4 shows the variations of climate, and depth of regolith, with latitude.

- (a) With reference to Fig. 4, describe the relationship between climate and depth of regolith. [3]
- (b) Account for the relationship described in (a). [5]
- (c) Explain why braided channels are likely to develop in the semi-desert and desert region. [4]

Globalisation of Economic Activity and Urban Issues and Challenges**4 OR**

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Section B Physical Geography

Answer **one** question from this section.

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

(a) Describe the characteristics of granite and explain how these characteristics influence the way granite is weathered. [9]

(b) Evaluate the effectiveness of measures taken to mitigate earthquake hazards. [16]

5 Or

(a) Explain the factors that determine how hazardous a mass movement event might be. [9]

(b) Assess the role of weathering and erosion in the development of tropical karst landforms. [16]

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

(a) With the aid of a diagram, explain how river velocity and sediment characteristics influence transportation and deposition of sediments in a river. [9]

(b) 'The risk of flooding owes more to physical factors than human factors'. To what extent do you agree with this statement? [16]

6 Or

(a) With the aid of a diagram, describe the features, and explain the formation, of meandering streams. [9]

(b) To what extent do human activities lead to low flows and reduced stores in a drainage basin system? [16]

Section C Human Geography

Answer **one** question from this section.

Globalisation of Economic Activity

7 EITHER

(a) Describe and explain the development of hub status in the context of global economic change. [9]

(b) To what extent do you agree that the globalisation of economic activity is due to the growth of TNCs? [16]

7 OR

(a) Distinguish and explain the relationship between *deindustrialisation* and *reindustrialisation*. [9]

(b) How far should the economic development of NIEs be attributed to the role of their respective governments? [16]

Urban Issues and Challenges

8 EITHER

8 OR

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