



ST ANDREW'S JUNIOR COLLEGE
Preliminary Examinations
Higher 1

Geography
Paper 1

8812/01

29 August 2014

3 hrs

Additional Materials: 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 staples, 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 **all** questions in this section.

Questions 1, 2 and 3 carry 12 marks and Question 4 carries 14 marks.

You should allocate your time accordingly.

Lithospheric Processes, Hazards and Management

- 1 Fig. 1 shows the global distribution of earthquake epicentres.
- (a) Describe and explain the distribution of earthquake epicentres shown in Fig. 1. [4]
- (b) With the aid of diagrams, describe how an earthquake in region A is different from an earthquake in region B. [3]
- (c) Outline how an earthquake hazard map can be produced for a city in region A. [5]

The Globalisation of Economic Activity

- 2 Fig. 2 is a map that shows the GDP per capita of different countries in 2007.
- (a) Describe and account for the global distribution of countries with high GDP per capita (above US\$12,000) shown in Fig. 2. [4]
- (b) (i) State the region with the largest concentration of countries with low GDP per capita (below US\$2,000) as shown in Fig. 2. [1]
- (ii) Suggest **two** reasons why this was the case. [2]
- (c) (i) Name the mapping technique used to construct Fig. 2, and explain **one** limitation of this mapping technique, using evidence from Fig. 2 to support your answer. [3]
- (ii) Explain **one** limitation of GDP per capita as an indicator of development. [2]

Hydrologic Processes, Hazards and Management**3 EITHER**

Fig. 3 shows two different types of development on a river flood plain in an urban area and some predicted flood levels.

- (a) How is a 1 in 100 year flood different from a 1 in 10 year flood? [2]
- (b) Describe how the non-regulated and regulated developments shown in Fig. 3 might be affected by different levels of flooding. [4]
- (c) Suggest some flood mitigation strategies that would reduce the risk of flooding in an urban area such as that shown in Fig. 3. [6]

Urban Issues and Challenges**3 OR**

(This question is left blanked intentionally)

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

4 EITHER

Fig. 4 shows the ways by which a river obtains its sediment load from outside the channel and the transportation of sediment within the channel.

(a) Identify the processes of transportation shown in Fig. 4 as:

(i) **A**

(ii) **B**

(iii) **C**

[3]

(b) Describe the operation of one of the processes you have identified in **(a)**.

[2]

(c) With the help of Fig. 4, explain how processes within the channel may cause slope failure and bank caving.

[5]

(d) How might a channel's load influence its morphology?

[4]

The Globalisation of Economic Activity & Urban Issues and Challenges

4 OR

(This question is left blanked intentionally)

Section B Physical Geography

Answer one question from this section.

Lithospheric Processes, Hazards and Management

5 Either

- (a) With the use of examples, distinguish between *granular disintegration* and *block disintegration*. [9]
- (b) To what extent is geology influential in the development of landforms in **either** limestone **or** granite areas? [16]

5 Or

- (a) With the help of a diagram, describe the main characteristics of a divergent plate boundary. [9]
- (b) “DCs are able to predict the occurrences of tectonic hazards and limit their hazardous effects more effectively than LDCs.”

How far do you agree with this view? [16]

Hydrologic Processes, Hazards and Management

6 Either

- (a) With the aid of a diagram, describe and explain how sub-surface flows and stores may contribute to surface flows and stores. [9]
- (b) To what extent are the conflicts of interest that operate within, and between, riparian states largely environmental? [16]

6 Or

- (a) Using diagrams, show how soils and vegetation within a catchment area (drainage basin) can affect the shape of storm hydrographs. [9]
- (b) To what extent is channel discharge an important factor in the formation of braided and meandering channels? [16]

Section C Human Geography

Answer one question from this section.

The Globalisation of Economic Activity

7 Either

- (a) With reference to examples, describe and explain the impact of foreign direct investment (FDI) on the economy of a country. [9]
- (b) To what extent is the role of the state in a newly industrialising economy (NIE) a key factor in the process of economic development? [16]

7 Or

- (a) With reference to examples, describe and explain the impact of the New International Division of Labour (NIDL) on DCs. [9]
- (b) "Supranational bodies have been ineffective in reducing international and regional economic disparities".

Discuss the validity of this statement. [16]

Urban Issues and Challenges

8 Either

(This question is left blanked intentionally)

8 Or

(This question is left blanked intentionally)

- End of Paper -