Name: _____ ( ) Class: _____

RVIP Year 6 Preliminary Examinations 2013

GEOGRAPHY (HIGHER 2) **9730/01**
Paper 1 **17 September 2013**

3 hours

Additional Materials: Answer Booklet/Paper
1 Insert
World outline map

INSTRUCTIONS TO CANDIDATES

Write your name, admission number 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.

Section A
Answer **all** questions.

Section B
Answer **two** questions, each from a different topic.

You are advised not to spend more than 90 minutes on Section A.
The Insert contains all the figures referred to in the questions.
The World outline map is also attached in the Insert.

You should make reference to appropriate examples studied in the field or the classroom, even where such examples are not specifically required by the question.
Sketch maps should be drawn whenever 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.

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.

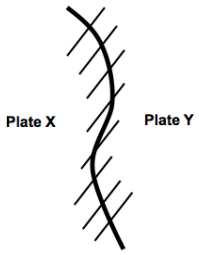
Section A

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 (Insert 2) shows a map of the world's major plate boundaries.

(a) **On Insert 2,** use a pen and shade clearly, all the plate boundaries where deep earthquakes are likely to be found. An example of the shading is shown below.



Submit Insert 2 with your answer script. [2]

(b) Account for the differences in earthquake magnitude at the plate boundaries labelled A and B. [6]

(c) Briefly explain how a tsunami may occur at plate boundary C. [4]

Atmospheric Processes, Hazards and Management

2 Figs 2A and 2B show the location and mean monthly precipitation for selected places in Africa.

(a) Group the places shown on Fig. 2A according to the characteristics of their rainfall distributions shown on Fig. 2B. Explain the climatic basis for the groupings you have made. [8]

(b) Using diagrams, explain the meaning of the terms '*convectional rainfall*' and '*orographic rainfall*'. [4]

Hydrologic Processes, Hazards and Management

3 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) Identify and explain two possible conflicts between the users of the River Yangtze and its valley, following the completion of the Three Gorges Dam. [4]

(c) Why are some rivers more naturally prone to flooding than others? [4]

Atmospheric and Hydrological Processes, Hazards and Management

4 Study Fig. 4 which shows a flood hydrograph taken from a gauging station sited in a tropical environment.

(a) Identify the features marked A, B, C and D on the flood hydrograph. [2]

(b) Why do features marked A and B differ on the same stream at different times? [6]

(c) Briefly describe how you would conduct a micro-climate study of the CBD area of your city. [6]

Section B

Answer **two** questions, each from a different topic.
All questions carry 25 marks.

Lithospheric Processes, Hazards and Management

5 EITHER

(a) Discuss and account for the key weathering processes that occur in tropical climates. [9]

(b) Assess the effectiveness of strategies used to manage the potential hazardous impacts of mass movement types such as slides and flows. [16]

5 OR

(a) Discuss the role of climate and vegetation in the development and form of an inselberg of your choice. [9]

(b) To what extent do you agree that DCs are more effective than LDCs in mitigating volcanic hazards? Support your answers with examples. [16]

Atmospheric Processes, Hazards and Management

6 Either

(a) Why do certain areas of the world only experience extended periods of drought on an occasional basis? [9]

(b) Describe the main aspects of tropical monsoon climates. To what extent are they distinctive from other tropical climates? [16]

6 OR

(a) Explain the enhanced greenhouse effect and give an account of the evidence that exists for global warming. [9]

(b) 'The effects of global warming pose the greatest risks to the world's poorest countries.' Discuss. [16]

Hydrologic Processes, Hazards and Management

7 Either

(a) Under what circumstances do rivers deposit material? Briefly explain how levees affect rivers and their tributaries. [9]

(b) Using examples, outline why an understanding of channel morphology is important in explaining the processes occurring in river channels. [16]

7 OR

(a) With the aid of diagrams, describe the key differences between a meandering channel and a braided channel. [9]

(b) With reference to located examples, explain how management might help to resolve conflicts between development and flood-risk issues. [16]

End of paper

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INSERT 1

INSTRUCTIONS TO CANDIDATES

This Insert contains all the Figures referred to in the question paper.

This document consists of 5 printed pages.

[Turn over]

Fig. 2A for Question 2

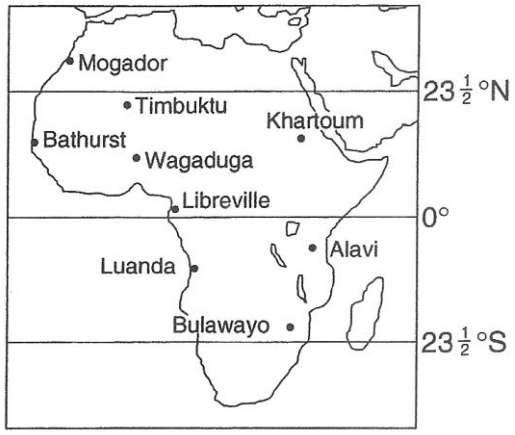


Fig. 2B for Question 2

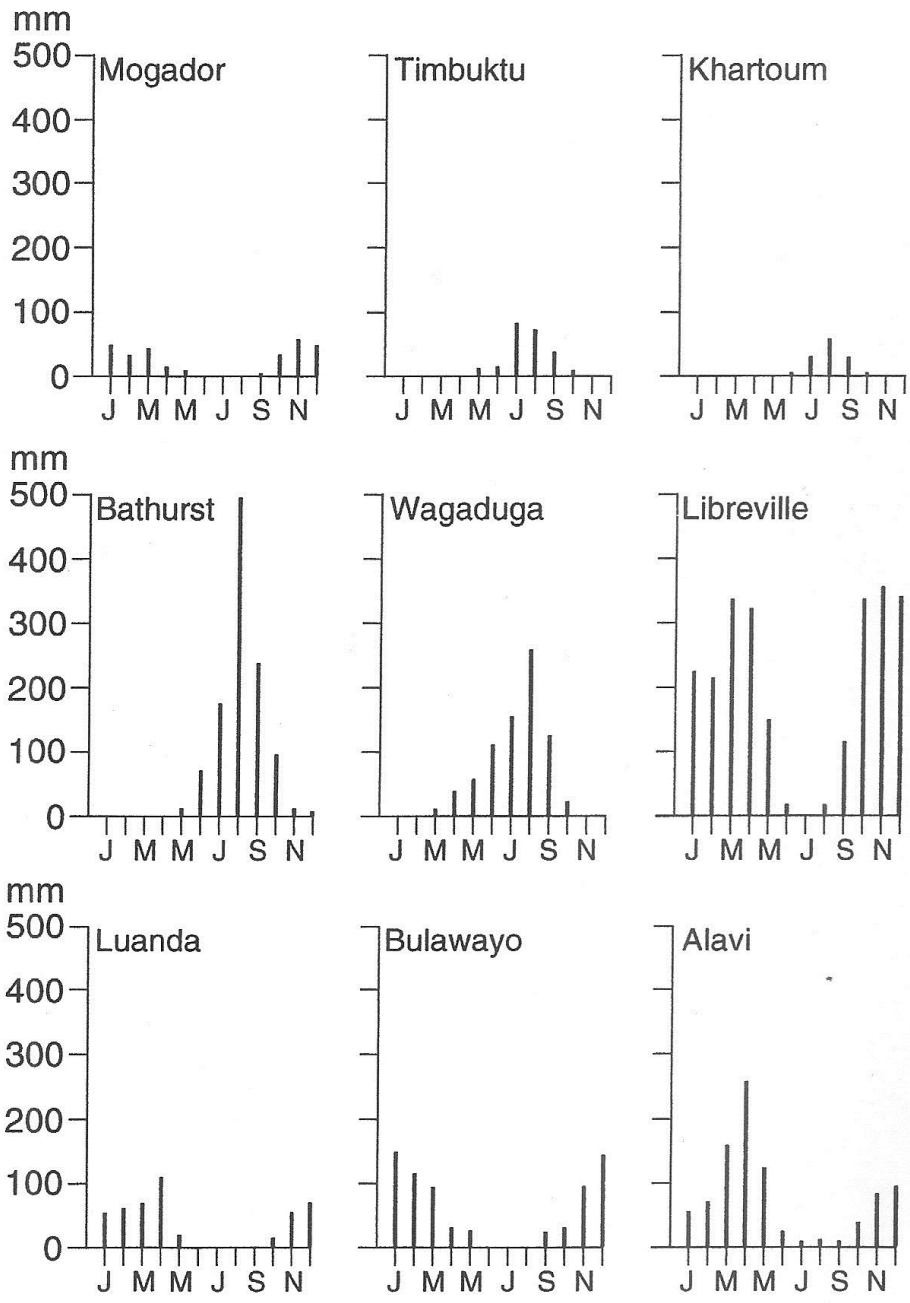


Fig. 3 for Question 3

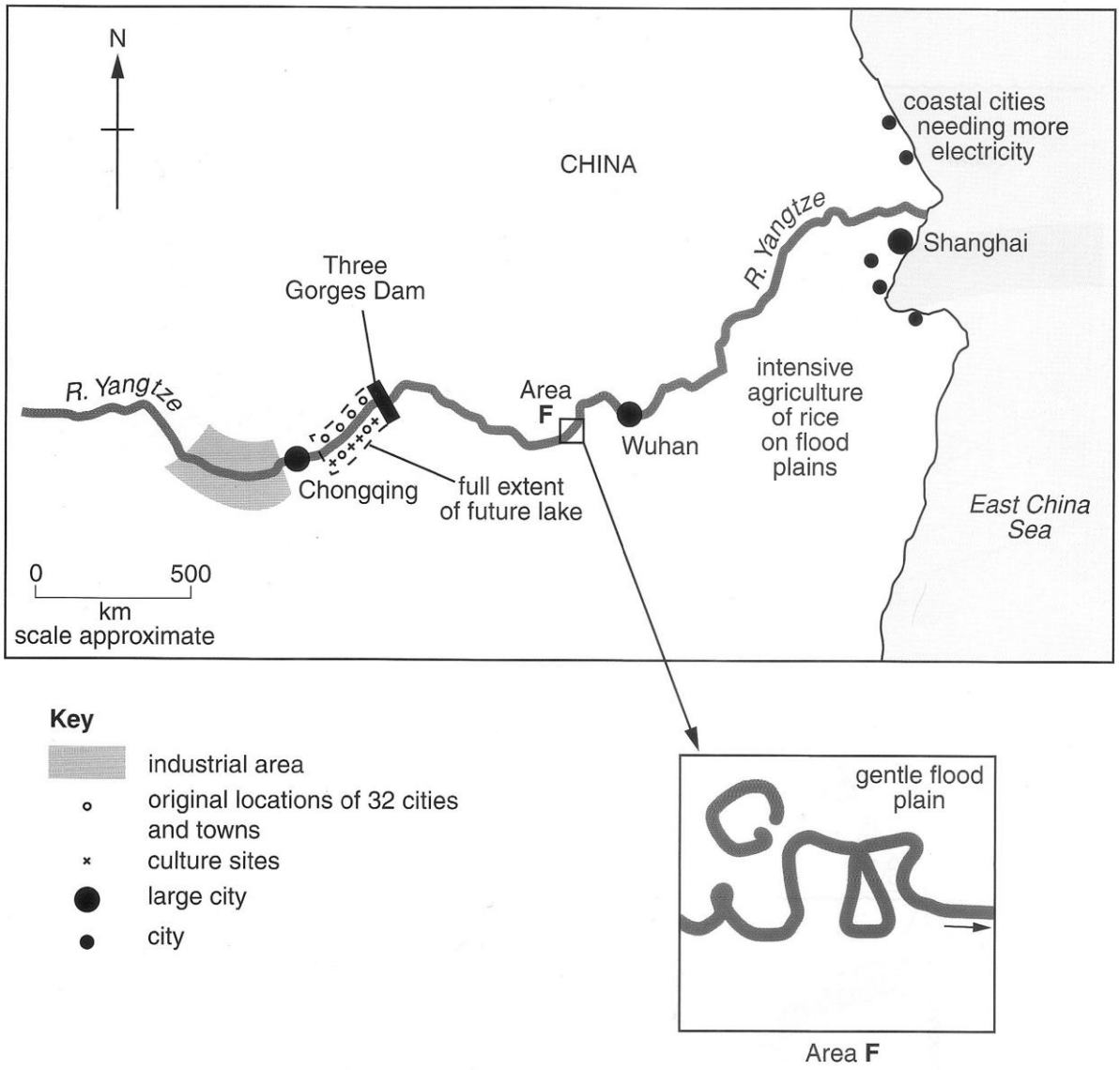
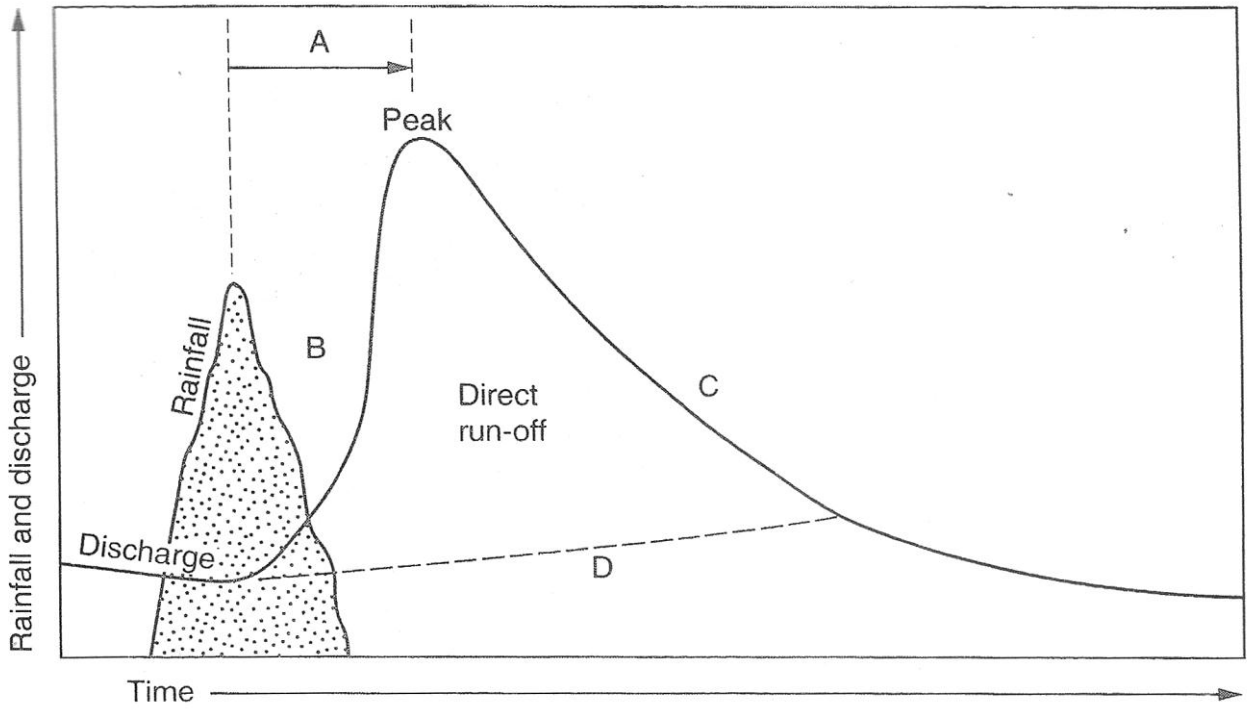


Fig. 4 Question 4



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INSERT 2

INSTRUCTIONS TO CANDIDATES

This Insert contains all the Figures referred to in the question paper.

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[Turn over]

Fig. 1 for Question 1