OXFORD CAMBRIDGE AND RSA EXAMINATIONS

GCSE

B563/02

GEOGRAPHY B

Key Geographical Themes (Higher Tier)

WEDNESDAY 12 JUNE 2013: Morning

DURATION: 1 hour 30 minutes plus your additional time allowance

MODIFIED ENLARGED 24pt

Candidate forename		Candidate surname	

Centre number						Candidate number				

Candidates answer on the Question Paper.

OCR SUPPLIED MATERIALS:

Resource Booklet (B563/A772/01/02/RB – inserted)

OTHER MATERIALS REQUIRED:

None

READ INSTRUCTIONS OVERLEAF

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INSTRUCTIONS TO CANDIDATES

- **The Resource Booklet will be found in the centre of this document. You may not use all of the resources. The questions tell you which resource(s) you need to use.**
- **Write your name, centre number and candidate number in the boxes on the first page. Please write clearly and in capital letters.**
- **Use black ink. HB pencil may be used for graphs and diagrams only.**
- **Answer THREE questions. Answer ONE question from Section A (EITHER Question 1 OR Question 2), answer ONE question from Section B (EITHER Question 3 OR Question 4) and answer ONE question from Section C (EITHER Question 5 OR Question 6).**
- **Read each question carefully. Make sure you know what you have to do before starting your answer.**

- **Write your answer to each question in the space provided. If additional space is required, you should use the lined pages at the end of this booklet. The question number(s) must be clearly shown.**

INFORMATION FOR CANDIDATES

- **The number of marks is given in brackets [ ] at the end of each question or part question.**
- **The total number of marks for this paper is 84.**
- **You will be assessed on the quality of written communication in your answer to the following questions: 1(f), 2(f), 3(f), 4(e), 5(f) and 6(f). Questions marked with a pencil (✎) will carry 3 additional marks for spelling, punctuation and grammar.**
- **Any blank pages are indicated.**

SECTION A – RIVERS AND COASTS

You must answer EITHER Question 1 OR Question 2.

EITHER

1 Use FIGS 1 and 2 in the Resource Booklet.

(a) Study FIG. 1, a map which shows flooding in the Zambezi river basin from 1979 to 2009.

What does the term 'river basin' mean?

_____

_____

_____

_____ **[2]**

(b) In which country was the impact of flooding most serious? Use data from FIG. 1 to support your answer.

_____

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_____ **[3]**

(c) **Suggest TWO reasons to explain why the impact of flooding in the Zambezi river basin was more serious in some countries than in others.**

1 _____

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2 _____

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[4]

(d) Study FIG. 2, a photograph of flooding in part of rural Mozambique in 2009.

Describe and explain TWO ways in which flooding could have affected the people who lived there.

1 _____

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2 _____

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[4]

(e) **Many rivers are managed to reduce the impact of flooding.**

Describe ONE method used to reduce the impact of flooding. Explain how sustainable this method is.

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_____ **[4]**

(f) ✎ **CASE STUDY – RIVER LANDFORMS AND PROCESSES**

Name a river valley you have studied.

_____

Describe ONE landform in your chosen river valley and explain how natural processes may change this landform over time. You may draw a labelled diagram(s) as part of your answer.
Include at least THREE developed ideas. [8]

+

SPELLING, PUNCTUATION AND GRAMMAR [3]

END OF QUESTION 1

OR

2 Use FIGS 3 and 4 in the Resource Booklet.

(a) Name and describe ONE process of coastal erosion.

_____

_____

_____

_____ **[2]**

(b) **Study FIG. 3, a map which shows the value of buildings at risk from coastal erosion in California, USA.**

Describe the distribution of counties in which the total value of buildings at risk from coastal erosion is more than US$3 billion.

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_____ **[3]**

(c) **Suggest TWO reasons why some counties have a higher value of buildings at risk from coastal erosion than others.**

1 _____

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2 _____

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[4]

(d) Study FIG. 4, which shows the coastal management plan for Surfers' Point in Ventura County, California.

Explain why this plan is sustainable.

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_____ **[4]**

(e) **Describe ONE method (other than beach replenishment) that can be used to protect a coast from erosion.**

Explain how this method protects the coast.

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_____ **[4]**

(f) ✎ CASE STUDY – COASTAL LANDFORMS AND PROCESSES

Name a coastal area you have studied.

_____

Describe ONE landform in your chosen coastal area and explain how natural processes may change this landform over time. You may draw a labelled diagram(s) as part of your answer.
Include at least THREE developed ideas. [8]

+

SPELLING, PUNCTUATION AND GRAMMAR [3]

END OF QUESTION 2

SECTION B – NATURAL HAZARDS

You must answer EITHER Question 3 OR Question 4.

EITHER

3 Use FIG. 5 in the Resource Booklet.

(a) Study FIG. 5, a map which shows information about food shortages in part of Africa in 2011.
The food shortages were mainly caused by severe drought in the area.

Describe variations in the level of food shortages in this part of Africa. [3]

_____

_____

_____

_____

(b) What is meant by the term ‘drought’?

[2]

(c) **Describe and explain TWO ways in which human activities can make the effects of drought more severe.**

1 _____

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2 _____

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[4]

(d) **Drought is a problem for farmers in LEDCs. Describe TWO different methods that farmers can use to reduce the effects of drought.**

1 _____

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2 _____

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[4]

(e) **Explain why the impact of drought is usually less severe in MEDCs than in LEDCs.**

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_____

_____ **[4]**

(f) ✎ **CASE STUDY – CLIMATIC HAZARD IN AN MEDC**

Name and locate an example of a climatic hazard in an MEDC.

_____

Describe the climatic conditions which caused the hazard, and explain the impacts of the hazard on people in the area.
Include at least THREE developed ideas. [8]

+

SPELLING, PUNCTUATION AND GRAMMAR [3]

END OF QUESTION 3

OR

4 Use FIG. 6 in the Resource Booklet.

(a) Study FIG. 6, a map which shows plate boundaries in the 'Pacific Ring of Fire'.

(i) Describe the locations of the ocean trenches shown on the map.

_____

_____

_____

_____

_____

_____ **[3]**

(ii) What type of plate boundary is:

- **between the Nazca Plate and the South American Plate?**

_____

- **between the Nazca Plate and the Pacific Plate?**

_____ **[2]**

(b) **Explain how the movement of plates can cause an earthquake at a CONSERVATIVE (TRANSFORM) plate boundary. You may draw a labelled diagram as part of your answer. [4]**

(c) How safe is it to live in an earthquake-prone area in an MEDC? Explain your answer.

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_____ **[4]**

(d) Suggest why there is usually less impact on people from volcanic eruptions than from earthquakes.

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_____ **[4]**

(e) ✎ CASE STUDY – TECTONIC HAZARD EVENT IN AN LEDC

Name and locate an example of a tectonic hazard (earthquake or volcanic eruption) in an LEDC.

_____

Describe the impacts of this hazard. Suggest why it may be difficult to prepare for this hazard in your chosen area in the future. Include at least THREE developed ideas. [8]

+

SPELLING, PUNCTUATION AND GRAMMAR [3]

END OF QUESTION 4

SECTION C – ECONOMIC DEVELOPMENT

You must answer EITHER Question 5 OR Question 6.

EITHER

5 Use FIG. 7 in the Resource Booklet.

(a) Study FIG. 7, an OS map extract which shows the location of Cambridge Science Park.

Describe the location of the Science Park.

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_____

_____

_____

_____

_____ **[3]**

(b) There are many companies in the quaternary sector of industry in Cambridge Science Park.

What is meant by 'quaternary' sector?

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_____ **[2]**

(c) **Suggest TWO reasons why Cambridge Science Park is in a good location for companies in the quaternary sector of industry.**

1 _____

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2 _____

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[4]

(d) **Explain ONE similarity and ONE difference between the factors affecting the location of a quaternary industry and a secondary industry.**

Similarity _____

_____

_____

_____

Difference _____

_____

_____

_____

[4]

(e) **Explain why multinational companies (MNCs) may change the location of their factories and offices from one country to another.**

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_____

_____

_____

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_____

_____ **[4]**

(f) CASE STUDY – ECONOMIC DEVELOPMENT AND THE ENVIRONMENT

Name and locate an economic activity.

_____

Describe how this economic activity has caused environmental damage. How has the conflict between economic development and the environment been managed? Include at least THREE developed ideas. [8]

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SPELLING, PUNCTUATION AND GRAMMAR [3]

END OF QUESTION 5

OR

6 Use FIGS 8 and 9 in the Resource Booklet.

(a) Study FIG. 8, which shows the Human Development Index (HDI) for Nepal, South Asia and the World between 1980 and 2010.

Compare the Human Development Index (HDI) for Nepal and the World.

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_____ **[3]**

(b) One of the Human Development Index (HDI) measures is 'life expectancy'. What does 'life expectancy' mean?

_____

_____

_____

_____ **[2]**

(c) **Choose TWO of the following measures of development and explain how each measure can show a country's level of development.**

BIRTH RATE **CAR OWNERSHIP**

INFANT MORTALITY **INTERNET ACCESS**

1 _____

_____

_____

_____

2 _____

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[4]

(d) Study FIG. 9, a Water Aid poster showing the benefits of access to clean water in Nepal.

Explain the benefits of access to clean water.

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_____ **[4]**

(e) Explain why some aid from MEDCs to LEDCs is not sustainable.

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_____ **[4]**

(f) ✎ CASE STUDY – AN ECONOMIC ACTIVITY IN AN LEDC

Name and locate an example of an economic activity in an LEDC which you have studied.

_____

Explain the factors which influence the location of this economic activity and describe its effects on people in the local area.
Include at least THREE developed ideas. [8]

+

SPELLING, PUNCTUATION AND GRAMMAR [3]

END OF QUESTION 6

END OF QUESTION PAPER

ADDITIONAL ANSWER SPACE

If additional answer space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margins.

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