OXFORD CAMBRIDGE AND RSA EXAMINATIONS

GCSE

B563/01

GEOGRAPHY B

Key Geographical Themes (Foundation Tier)

WEDNESDAY 12 JUNE 2013: Morning

DURATION: 1 hour 30 minutes plus your additional time allowance

MODIFIED ENLARGED

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(f), 5(e) 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 showing flooding in the Zambezi river basin from 1979 to 2009.

(i) How many countries are part of the Zambezi river basin?

_____ **[1]**

(ii) Which country had the highest number of floods?

_____ **[1]**

(iii) How many people were killed by flooding in Mozambique?

_____ **[1]**

(b) (i) What does 'river basin' mean?

_____

_____ **[1]**

(ii) **Which ONE of these is a store in a river basin?**

Circle the correct answer.

LAKE **RAIN** **WATERFALL**

[1]

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

_____

_____

_____

_____

_____

_____

_____

_____ **[4]**

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

Describe how flooding could have affected the people who lived there.

_____

_____

_____

_____

_____

_____

_____

_____ **[4]**

(e) Many rivers are managed to reduce the effects of flooding.
State TWO methods to reduce the effects of flooding.
Explain how EACH method works.

Method 1 _____

_____

_____

_____

Method 2 _____

_____

_____

_____

[4]

(f) ✐ **CASE STUDY – AN EXAMPLE OF A LANDFORM IN A RIVER VALLEY**

Name the river valley.

_____

Describe ONE landform in your chosen river valley.

_____

_____

Explain, with detail, how natural processes may change this landform over time. You should refer to processes such as erosion and deposition.

You may draw a labelled diagram(s) as part of your answer.

_____

_____

_____

_____

_____

_____

_____

_____ **[8]**

+

✎ SPELLING, PUNCTUATION AND GRAMMAR [3]

END OF QUESTION 1

OR

2 Use FIGS 3 and 4 in the Resource Booklet.

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

(i) Approximately how long is the California coastline?

Circle the correct answer.

650 km **1350 km** **2150 km** **[1]**

(ii) Which county has the highest value of buildings at risk?

_____ **[1]**

(iii) What is the exact value of buildings at risk in Ventura County?

_____ **US$ billion [1]**

(b) Some counties on the California coastline have a high value of buildings at risk from coastal erosion.
Suggest reasons to explain why.

_____

_____

_____

_____

_____

_____

_____

_____ **[4]**

(c) State TWO natural processes of erosion at the coast.

Process 1 _____

Process 2 _____

[2]

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

Explain:

one ADVANTAGE of this coastal management plan

_____

_____

_____

_____

one DISADVANTAGE of this coastal management plan

_____

_____

_____

_____

[4]

(e) Describe ONE method (other than beach replenishment) that can be used to manage coastal erosion.

Explain how this method works.

Method _____

_____

_____

_____

_____

_____

_____

_____ **[4]**

(f) ✐ CASE STUDY – AN EXAMPLE OF A COASTAL LANDFORM

Name the coastal area.

_____

Describe ONE landform in your chosen coastal area.

_____

_____

Explain, with detail, how natural processes may change this landform over time. You should refer to processes such as erosion and deposition.

You may draw a labelled diagram(s) as part of your answer.

_____

_____

_____

_____

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_____

_____

_____ **[8]**

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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.

(i) Which country had the highest number of people affected by food shortages?

Circle the correct answer.

DJIBOUTI ETHIOPIA KENYA SOMALIA

[1]

(ii) In which country was there an area where the food shortages were at Level 5?

_____ **[1]**

(iii) Circle the correct words to complete the sentence which follows.

Food shortages in the western area of the map were …

LESS SEVERE THAN AS SEVERE AS

MORE SEVERE THAN

… food shortages in the eastern area. [1]

(b) What is meant by the term 'drought'?

_____

_____

_____

_____ [2]

(c) Suggest reasons to explain why many people die because of drought in some LEDCs.

_____

_____

_____

_____

_____

_____

_____

_____ **[4]**

(d) Explain how human activities can make the impact of a drought worse.

_____

_____

_____

_____

_____

_____

_____

_____ **[4]**

(e) Describe and explain how each of the following ideas could help people to live in areas affected by drought.

Improving water supply _____

_____

_____

_____

Restricting water use _____

_____

_____

_____

[4]

(f) ✐ CASE STUDY – AN EXAMPLE OF A CLIMATIC HAZARD EVENT IN AN MEDC PLACE (SUCH AS A DROUGHT OR A TROPICAL STORM)

Name your chosen MEDC place.

_____

State the type of climatic hazard.

_____

Describe, with detail, the impact of the climatic hazard on the people in your chosen MEDC.

_____

_____

_____

_____

_____

_____

_____

_____

Describe, with detail, the natural conditions which caused the hazard.

_____

_____

_____

_____

_____

_____

_____

_____

[8]

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✎ **SPELLING, PUNCTUATION AND GRAMMAR [3]**

END OF QUESTION 3

OR

4 Use FIG. 6 in the Resource Booklet.

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

(i) Name the smallest plate shown on the map.

_____ **[1]**

(ii) Name the ocean trench located on the boundary of the Nazca Plate and the South American Plate.

_____ **[1]**

(iii) Near Japan, in which direction is the Eurasian Plate moving towards the Pacific Plate?

Circle the correct answer.

NORTH EAST **SOUTH EAST**

SOUTH WEST

[1]

(b) Complete the table below by adding the correct words for the type of plate boundary.

DESCRIPTION OF PLATE MOVEMENT	TYPE OF PLATE BOUNDARY
Towards each other	_____
Away from each other	_____

[2]

(c) Explain how the movement of plates can cause an earthquake.
You may include a labelled diagram as part of your answer.

_____

_____

_____

_____

_____

_____

_____

_____ **[4]**

(d) The impact of earthquakes is often worse in LEDCs than in MEDCs.
Suggest TWO reasons to explain why.

Reason 1 _____

_____

_____

_____

Reason 2 _____

_____

_____

_____

[4]

(e) Give reasons to explain why it can be safe to live in an area in an MEDC, which has earthquakes.

_____

_____

_____

_____

_____

_____

_____

_____ **[4]**

(f) ✐ CASE STUDY – AN EXAMPLE OF A TECTONIC HAZARD EVENT (SUCH AS AN EARTHQUAKE OR A VOLCANIC ERUPTION) IN AN LEDC PLACE.

Name your chosen LEDC place.

_____

State the type of tectonic hazard (earthquake or volcanic eruption).

_____

Describe, with detail, the impact of the tectonic hazard in your chosen LEDC.

_____

_____

_____

_____

_____

_____

_____

_____

Suggest how people may prepare for this hazard if it happens again.

_____

_____

_____

_____

_____

_____

_____

_____

[8]

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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.

(i) Add the correct A road number to complete the sentence which follows.

Cambridge Science Park is located near the junction of the A14, the A1309 and the

A _____ [1]

(ii) Approximately, how much land is covered by Cambridge Science Park?

Circle the correct answer.

0.5 km^2 2 km^2 4 km^2 [1]

(iii) What is the direction of the Cambridge Science Park from Histon in grid square 4463?

Circle the correct answer.

NORTH WEST NORTH EAST SOUTH EAST

[1]

(b) Look again at FIG. 7.

Quaternary industries such as computer software and research companies are located at Cambridge Science Park. Suggest TWO reasons to explain why the science park is in this location.

Reason 1 _____

_____

_____

_____

Reason 2 _____

_____

_____

_____

[4]

(c) (i) Give TWO examples of jobs in the tertiary sector.

_____

_____ **[2]**

(ii) Suggest reasons to explain why many people work in tertiary industries in MEDCs.

_____

_____

_____

_____

_____

_____

_____

_____ **[4]**

(d) Many multinational companies (MNCs) locate their factories and offices in LEDCs.
Give TWO reasons to explain why.

Reason 1 _____

_____

_____

_____

Reason 2 _____

_____

_____

_____

[4]

(e) ✐ CASE STUDY – AN ECONOMIC ACTIVITY THAT HAS DAMAGED THE PHYSICAL ENVIRONMENT

State the type and location of the economic activity.

_____

Describe, with detail, the economic activity.

_____

_____

_____

_____

_____

_____

_____

_____

Describe, with detail, how the economic activity has damaged the physical environment.

_____

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_____

_____

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_____

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_____

[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, a graph showing changes in the Human Development Index (HDI) for Nepal, South Asia and the World.

(i) What was the Human Development Index (HDI) for Nepal in 2005?

_____ **[1]**

(ii) In which year was the Human Development Index (HDI) for South Asia 0.4?

_____ **[1]**

(iii) Circle the correct words to complete the sentence which follows.

The Human Development Index (HDI) from 1980 to 2010 shows that Nepal was

MORE DEVELOPED THAN AS DEVELOPED AS

LESS DEVELOPED THAN

the rest of South Asia. [1]

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

_____

_____

_____

_____ **[2]**

(c) Describe and explain how the following measures could change as a country develops.

Life expectancy _____

_____

_____

_____

Car ownership _____

_____

_____

_____

[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.

_____

_____

_____

_____

_____

_____

_____

_____ **[4]**

(e) Explain TWO problems that aid from MEDCs can cause LEDCs.

Problem 1 _____

_____

_____

_____

Problem 2 _____

_____

_____

_____

[4]

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

State the type and location of the economic activity.

_____

Describe, with detail, an example of an economic activity in your chosen LEDC.

_____

_____

_____

_____

_____

_____

_____

_____

Explain, with detail, the factors affecting the location of this economic activity.

_____

_____

_____

_____

_____

_____

_____

_____

_____

[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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BLANK PAGE

BLANK PAGE

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