GCSE 4231/02
GEOGRAPHY (Specification A)
HIGHER TIER
UNIT 1: Core Geography
P.M. TUESDAY, 24 May 2016
1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES
Use black ink or black ball-point pen.
Write your name, centre number and candidate number in the spaces at the top of this page.
Answer all questions.
Write your answers in the spaces provided in this booklet. Where the space is not sufficient for your answer, continue the answer at the back of the book, taking care to number the continuation correctly.

INFORMATION FOR CANDIDATES
The number of marks is given in brackets at the end of each question or part-question.
You are reminded that assessment will take into account the quality of written communication used in your answers that involve extended writing.
Answer all questions.

Theme 1 – Water

1. (a) Study the map extract below. It shows an extract from an OS map at a scale of 1:50000. A full key appears on page 24.

(i) Give the 6 figure grid reference of the confluence of the River Axe and the Lox Yeo river.  

(ii) Give the length of the Cheddar Yeo from points A to B.  

(iii) Describe the relief in grid square 4055 and grid square 4054.

Grid square 4055 ...................................................................................................................................................

Grid square 4054 .....................................................................................................................................................
(b) Describe how different river processes lead to the formation of **one** river landform that you have studied.

*You must use an annotated diagram to help your answer.*
(c) Study the photograph below.

Flooding in the UK (February 2014)

Compare different options for floodplain management in the **future**. [6]

*Use examples to help your answer.*
2. (a) Study the information below.

**Average Arctic sea ice extent (1979 – 2014)**

(i) Give the average Arctic sea ice extent in 1979. [1]

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(ii) Describe the change in the extent of Arctic sea ice between 1979 and 2014. [3]

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(b) Study the graph below.

**Carbon Dioxide Emissions (1990 – 2030)**

(i) Compare the **predicted** change in carbon dioxide emissions in China with that in Europe.

(ii) Describe one way in which climate change is likely to affect people's lives in the future.
(c) Describe how technology can be used to reduce climate change in the future. [6]

*Use one or more examples to help your answer.*
3. (a) Study the information below.

(i) Describe the location of Mount Kelud. [3]

(ii) Use the photograph to describe one way the eruption of Mount Kelud may have caused problems for people living in Surabaya. [2]
(b) (i) Give two ways volcanologists can monitor active volcanoes. [2]

(ii) For one of these ways, explain why this indicates that an eruption is likely. [2]

(c) Explain why many people continue to live in the hazard zones associated with volcanoes. Use one or more examples to help your answer. [6]
4. (a) Study the graph below.

(i) How many births were there in 1964? [1]

(ii) Describe the trend in number of births since 1964. [2]

(b) Describe how one factor, other than access to contraception, influences the birth rate. [3]
(c) Study the map below.

Percentage of the Population over 65 years

(i) Give the percentage of the population of Germany that is over 65.  

...................................... %  

(ii) Describe the distribution of countries that have between 12% and 13.9% of their population over 65 years.  

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(d) Describe how changing birth and death rates are likely to affect the population structure of any Western European country in the future. [6]

*Use one or more examples to help your answer.*
5.  (a) Give two changes in technology that have allowed activities such as the Olympic Games to become a major global event. [2]

1. .........................................................................................................................................................................................................

2. .........................................................................................................................................................................................................

(b) Study the graph below.

Olympic growth (1908–2012)

Describe the change in the number of male and female athletes who competed in the Olympic Games between 1908 and 2012. [3]
(c) Study the information below. The larger map shows countries resized according to the total number of athletes who participated in the London 2012 Olympic Games from each country.

London 2012 Athletes

Describe the patterns shown by the map showing London 2012 athletes. [4]
(d) Explain why globalisation has hindered economic progress in many of the least economically developed countries of the world. [6]

*Use one or more examples to help your answer.*
6. (a) Study the graph below.

How the UK Government spends its money

Expenditure (£ billion)

Health  Education  Defence  Transport  International development  Energy & climate  Environment

(i) How much money does the UK government spend on International development? [1]

............................................ £ billion

(ii) Complete the graph to show expenditure on defence of £33 billion. [1]

(iii) Describe one way in which receiving UK government aid could help improve the lives of people living in the least economically developed countries. [3]
(b) Study the map below.

**Countries’ progress towards meeting Millennium Development Goal One**

(i) Suggest why the UN set the Millennium Development Goals. [1]

(ii) Describe the distribution of countries that made no progress towards meeting Millennium Development Goal One. [3]
(c) Describe the progress made by sub-Saharan African countries towards meeting one or more of the goals you have studied.

*Use one or more examples to help your answer.*