

GCSE

GEOGRAPHY A



COMPONENT 2

ENVIRONMENTAL AND DEVELOPMENT ISSUES

SAMPLE ASSESSMENT MATERIALS

1 hour 30 minutes

| Section | Question | Mark | SPaG |
|---------|----------|------|------|
| A | 1 | 34 | |
| ^ | 2 | 34 | 4 |
| В | Either 3 | 16 | |
| | Or 4 | 16 | |
| Т | otal | 84 | 4 |

ADDITIONAL MATERIALS

In addition to this paper you will require a calculator and a ruler.

INSTRUCTIONS TO CANDIDATES

Answer **both** questions in Section A. Answer **one** question in Section B.

Use black ink or black pall-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page. Write your answers in the spaces provided in this booklet.

If additional space is required you should use the lined pages at the end of this booklet. The question numbers should be clearly shown.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question. Your ability to spell, punctuate and use grammar and specialist terms accurately will be assessed in your answer to question 2 (e).

SECTION A

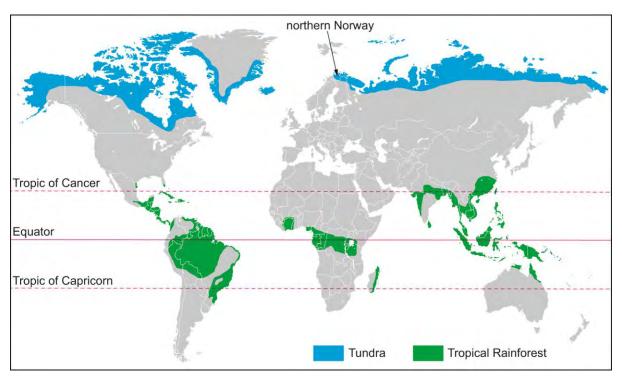
CORE THEMES

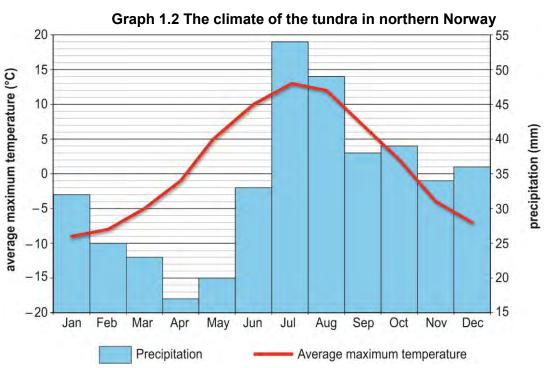
Answer all of the questions in this section.

CORE THEME 5: Weather, climate and ecosystems

1. (a) Study the map and climate graph below.

Map 1.1 The distribution of tundra and tropical rainforest (biomes)





| (i |) | Describe the climate of the tundra by completing the statements below. | |
|----|----|--|-----|
| | | Circle the correct response in each sentence by using Graph 1.2. | [4] |
| | | The temperature is below zero for 4/6/2 months of the year. | |
| | | The average temperature in July is 13/15/17°C. | |
| | | The annual range of temperature is 9 / 13 / 22 °C. | |
| | | The total precipitation for the year is about 200 / 300 / 400 mm. | |
| (i | i) | Give two reasons why the tundra climate is much colder than the tropical climate. | [4] |
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(iii) The tundra ecosystem contains both living and non-living parts.

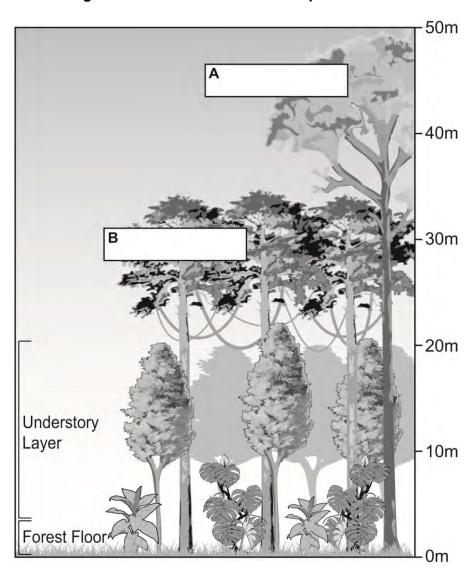
Use your knowledge of ecosystems to complete the table by putting the **three** answers from the box into the correct columns. [2]

| arctic hare | moss | bacteria in the soil |
|-------------|------|----------------------|
| | | |

| | living parts of the tundra | | | | | |
|------------------|----------------------------|----------|------------|--|--|--|
| non-living parts | producer | consumer | decomposer | | | |
| rocks | | | | | | |

(b) Study the diagram below.

Diagram 1.3 The structure of the tropical rainforest



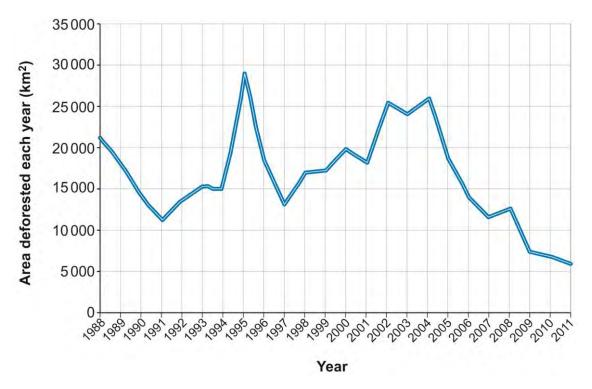
(i) Add labels to Diagram 1.3 to name the layers in boxes A and B. [2]

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| (ii) | Describe the structure of one other named ecosystem you have studied. | [4] |
|------|--|-----|
| | Name of ecosystem | |
| | | |
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(c) Conservationists are concerned about the amount of tropical rainforest cut down each year. Study the graph below.

Graph 1.4 Deforestation of the Amazon rainforest in Brazil



(i) Which **two** statements best describe the trends on Graph 1.4? Tick (✓) **two** correct statements. [2]

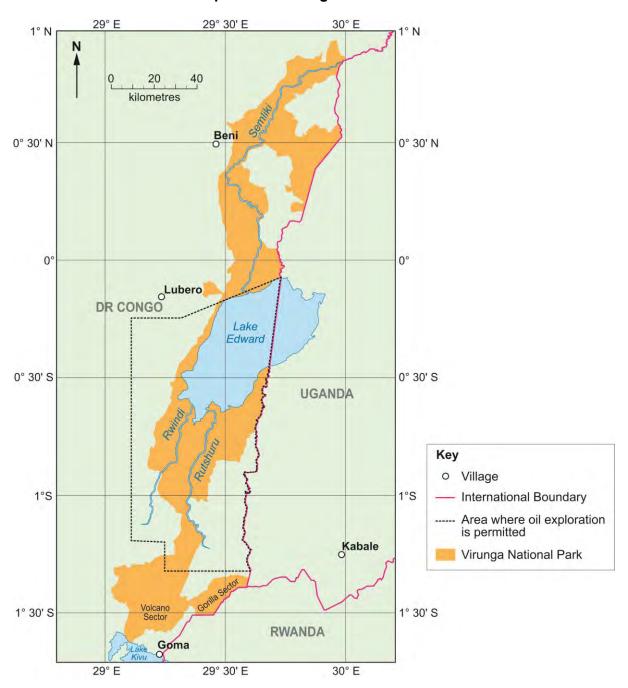
| | Tick (✓) two correct statements |
|--|--|
| The amount of deforestation has gradually decreased since 1988 | |
| The amount of deforestation has fluctuated but the overall trend is downwards since 1988 | |
| There has been a negative correlation since 1988 | |
| Half as many trees were cut down in 2011 as in 1995 | |
| Almost 5 times as many trees were cut down in 1995 than in 2011 | |
| 20,000 less trees were cut down in 2011 than in 1995 | |

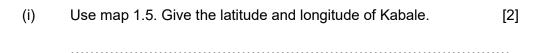
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| (ii) | Explain why deforestation alters the movement of water through a tropical drainage basin. | [6] |
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(d) Study the map 1.5 below

Map 1.5 The Virunga National Park





The Democratic Republic (DR) of Congo is a low income country in central Africa. Gross National Income (GNI) per person is US\$410. Youth unemployment is an issue. More than 70% of those aged 15 to 24 have no work. Study the newspaper article below and Map 1.5.

Oil exploration threatens biodiversity and water resources

DR Congo is in rich in natural resources. Copper and copper ore make up 35% of the country's exports and oil another 16%. Oil has recently been discovered in the Virunga National Park which is a UNESCO World Heritage Site. This large Park contains tropical rainforest and savanna ecosystems. It is one of the most bio diverse places on Earth. The park is famous for its wildlife, especially hippos and gorillas. Some local people in Virunga make a living from eco-tourism.

The government of DR Congo has given permission for a French multinational company to begin oil exploration in Virunga. Critics say that oil exploration will harm wildlife and the tourist industry. Oil spills in Lake Edward would harm fish, birds and hippos. It would also damage water resources. Critics also fear that unemployed people will be attracted to the Park looking for work. They may clear trees for firewood and wild animals are killed for their meat.

| (ii) | Should the government of the DR Congo allow oil exploration to go ahead in Virunga National Park? Justify your decision. You should consider the impacts of your decision on people and environments. [8] |
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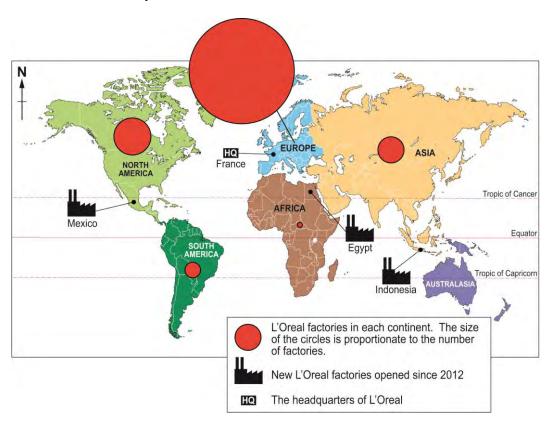
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CORE THEME 6: Economic development

| (a) | Defin | ne the following terms. In each question, tick (\checkmark) the correct st | atement. |
|-------|----------|---|----------|
| | (i) | Globalisation is: | [1 |
| | | | tick (√ |
| The | change | e in temperature of the Earth's atmosphere over time | |
| Wher | n charit | ties provide help to poor countries after a disaster | |
| The \ | way in | which countries are linked by people, technology or money | |
| | (ii) | NIC stands for: | [1 |
| | | | tick (< |
| Non- | industr | ialised Country | |
| Newl | y Indus | strialised Country | |
| Newl | y Indus | strialised Company | |
| | (iii) | One feature of the global economy is that many people in deconomies work in informal jobs. Give four features of informal work. | [4 |
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(b) Study the map below. L'Oréal is a global company, or multi-national company (MNC), with employees in 130 different countries. L'Oréal manufactures cosmetics (such as hair colouring).



Map 2.1 The distribution of L'Oréal factories

Describe **one** way that Map 2.1 could be adapted to more clearly show the distribution of L'Oréal factories. [2]

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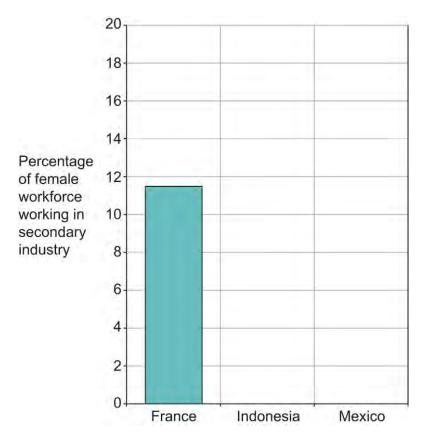
(c) L'Oréal employs 30,000 people in Asia and Central and South America. 66% of these employees are women. Study the table below.

Table 2.2 Selected facts about three countries where L'Oréal has factories

| | France | Indonesia | Mexico |
|--|--------|-----------|--------|
| Gross National Income (GNI) per person US\$ 2011 | 35,650 | 4,520 | 15,060 |
| Per cent of all female workforce that work in secondary industry | 11.5 | 15 | 18 |
| Internet users per 100 people | 76 | 18 | 36 |
| Population (millions) | 66 | 255 | 121 |

(i) Use data from Table 2.2 to complete Graph 2.3 below.

Graph 2.3 Per cent of all female workforce that work in secondary industry



| | (ii) | Which statement best describes the difference between G and Indonesia? | NI in France | |
|-----|-----------|--|---------------|--|
| | | Use evidence from Table 2.2. Tick (✓) the correct answer. | [1] | |
| | | | Tick (✓) | |
| | GNI in Fr | ance is almost 6 times higher than in Indonesia | | |
| | GNI in Fr | ance is almost 8 times higher than in Indonesia | 1 | |
| | GNI in Fr | ance is almost 10 times higher than in Indonesia | | |
| | (iii) | Use Table 2.2 to identify which of the three countries has tactual number of internet users. | the largest | |
| | | Show your working in the space below. | [3] | |
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| | | The country is | | |
| (d) | (i) | Give two recent changes in technology that have allowed national companies such as L'Oréal to expand. | multi- [2] | |
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| (ii) | Explain how changes in technology have allowed multi-national companies such as L'Oréal to expand globally. | [4] |
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| (iii) | Explain why multi-national companies like L'Oréal open factories i countries such as Indonesia and Mexico. | n [6] |
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(e) Study the fact box below.

Fact box 2.4

The population of Mexico is 121 million.

Mexico is an NIC. Wages are rising and more people than ever can afford to spend money on consumer items.

It is estimated that 60% of all workers in Mexico work in the informal sector.

In 2012 L'Oréal opened a new factory in Mexico that employs 1,200 workers. This investment cost L'Oréal US \$100million.

66% of L'Oréal employees are women.

Do you think this investment is good for Mexico?

| Evaluate the advantages and disadvantages for Mexico of this type of investment by a multi-national company. | [8+4] |
|---|--------|
| Your ability to spell, punctuate and use grammar and specialist terminology accurately will be assessed in your answer to this questi | ion. |
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End of Question 2

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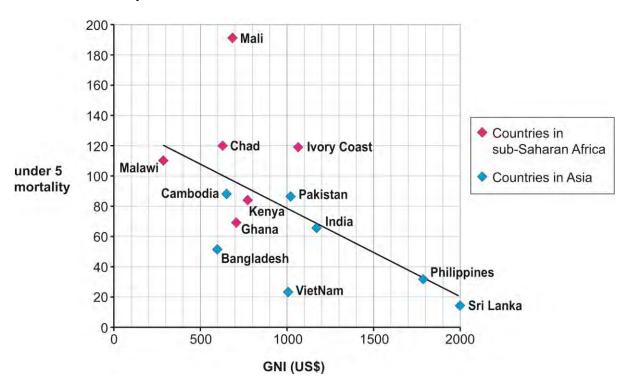
SECTION B: OPTIONS

Answer **one** question in this section. Choose either question 3 (Theme 7) OR question 4 (Theme 8)

THEME 7: Social development

3. (a) Study the scatter graph below. Gross National Income (GNI) is a measure of the wealth of a country.

Graph 3.1



(i) Use Graph 3.1 to complete the table below.

| Country | GNI (US\$) per person | Under 5 mortality |
|------------|--------------------------|----------------------|
| | 1020 | 85 |
| Bangladesh | | 52 |

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| | (ii) | Under 5 mortality is one measure of the 'development gap'. Describe what is measured by under 5 mortality. | [2] |
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| (b) | popula | countries of sub-Saharan Africa have a large percentage of the ation infected with HIV/AIDS. Explain why this is a problem for the nment. | [4] |
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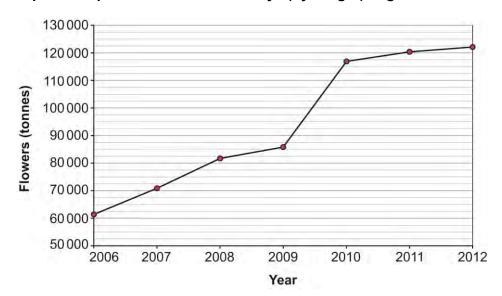
| (c) | Malaria is another health issue that affects sub-Saharan Africa. To what extent is progress being made in tackling the spread of malaria in sub-Saharan Africa? [8] |
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End of Question 3

THEME 8 – Environmental challenges

4. (a) Study the graph below.

Graph 4.1 Export of flowers from Kenya (by weight). Figures in tonnes



| (i) | Use Graph 4.1 to describe the trend in the export of flowers from Kenya between 2006 and 2012. Use figures in your answer. | [2] |
|------|--|-------------|
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| (ii) | The export of flowers is one way in which the UK and Kenya are interdependent. | |
| | Apart from trade (exports and imports), outline one other way in who countries are interdependent. | nich [2] |
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| (b) | the environment. | n [4] |
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| (c) | To what extent are consumers in the UK to blame for damage to tropical ecosystems? In your answer you should consider the ways in which consumer demand in the UK has an impact on tropical farms and ecosyste compared to other factors. | ems [8] |
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End of Question 4