



General Certificate of Education
Advanced Level Examination
January 2013

Geography

GEOG3

Unit 3 Contemporary Geographical Issues

Thursday 17 January 2013 1.30 pm to 4.00 pm

For this paper you must have:

- an AQA 12-page answer book.
- You may use a calculator.

Time allowed

- 2 hours 30 minutes

Instructions

- Use black ink or black ball-point pen. Pencil should only be used for drawing.
- Write the information required on the front of your answer book. The **Examining Body** for this paper is AQA. The **Paper Reference** is GEOG3.
- Answer **three** options: **one** from each Section. In **Section C**, you must **not** answer the same option as those chosen in **Sections A** and **B**.
- Use sketch maps, diagrams and specific examples, where appropriate.
- Do all rough work in your answer book. Cross through any work that you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 90.
- You will be marked on your ability to:
 - use good English
 - organise information clearly
 - use specialist vocabulary where appropriate.

Advice

- You are advised to spend about 45 minutes on each of **Sections A** and **B** and about 60 minutes on **Section C**.

Section A

Answer **one** option from this section.

You must not answer the option that you will answer in Section C.

Option 1 Plate Tectonics and Associated Hazards

Total for this option: 25 marks

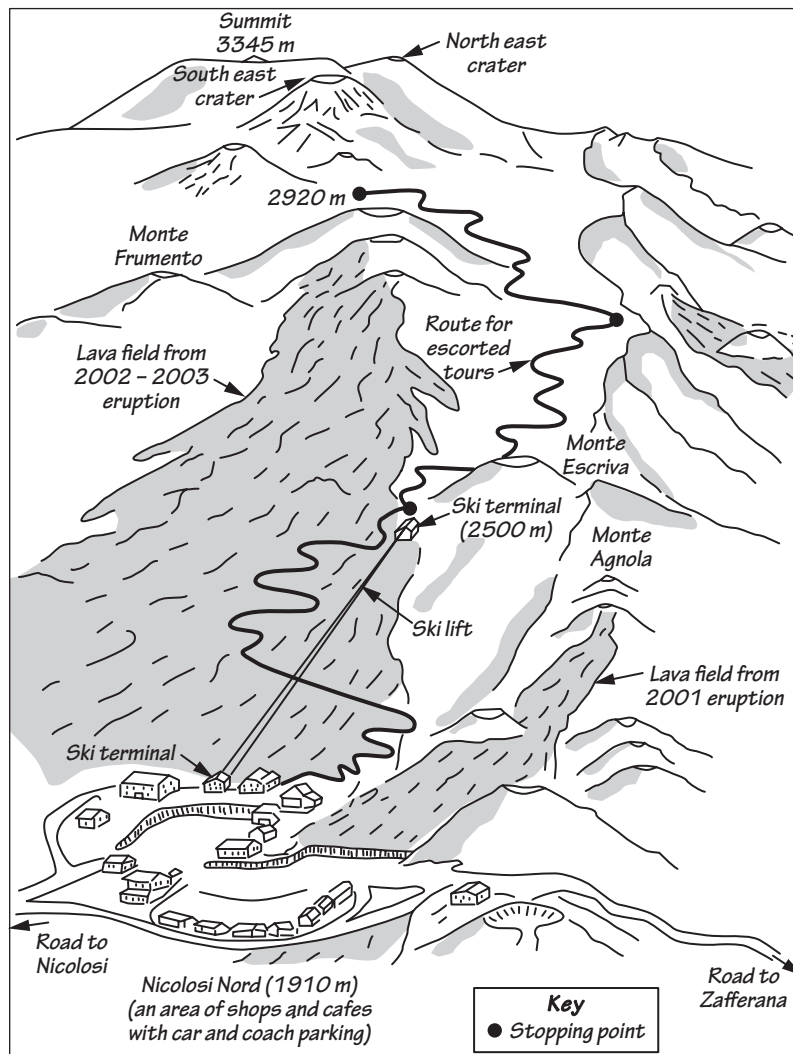
0 1

Study **Figure 1**, a sketch of the south facing slopes of Mount Etna, an active volcano in Sicily.

Comment on the management issues that may have arisen and may arise in the area.

(7 marks)

Figure 1



0 2

Describe the characteristics of forms of intrusive volcanic activity and explain their formation.

(8 marks)

0 3

With reference to examples, discuss the ways in which the nature of volcanic hazards can vary.

(10 marks)

Option 2 Weather and Climate and Associated Hazards**Total for this option: 25 marks****0 4**

Study **Figure 2**, an extract from an Indian news report on the approach of a tropical revolving storm, Cyclone Laila, in May 2010.

Identify and comment on the possible management strategies that could have been put in place. (7 marks)

Figure 2

**India moves to protect coast-dwellers
from strong cyclone (20 May 2010)**

As a strong tropical cyclone bears down on India's south-eastern coast, authorities are stepping up efforts to minimise casualties and respond to its aftermath. According to weather officials, Cyclone Laila was moving in from the Bay of Bengal and was expected to hit the coast of India's Andhra Pradesh state on Thursday, packing gale force winds of up to 120 km/h. While the Indian Meteorological Department said that the cyclone had weakened in the last 12 hours, aid workers believe the impact is likely to be severe.

'The threat has not subsided fully yet, as gales with speeds of over 115 km/h in the coastal areas may cause significant damage in Andhra Pradesh', noted a report from the UN's Disaster Management Team in Delhi. As these gales will be accompanied by storm surges or tidal waves of up to two metres and heavy rains, authorities and aid workers expect tens of thousands of people – mainly poor fishing communities – living in low-lying coastal areas to be impacted.

The storm's effects are already being felt, not just in Andhra Pradesh but also in the neighbouring state of Tamil Nadu. Heavy rainfall has caused knee-high flooding in many areas, and strong winds have toppled trees and disrupted power and communication lines.

However, aid workers say disaster-prone Andhra Pradesh appears to be taking no chances. 'The response by the state government has been very good. Andhra Pradesh is well-experienced in dealing with these kinds of disasters', said Vikas Gora of Sphere India, an emergency coordination group of UN, government and aid agencies.

Source: Thomson Reuters Foundation AlertNet

0 5

Explain the formation of tropical revolving storms.

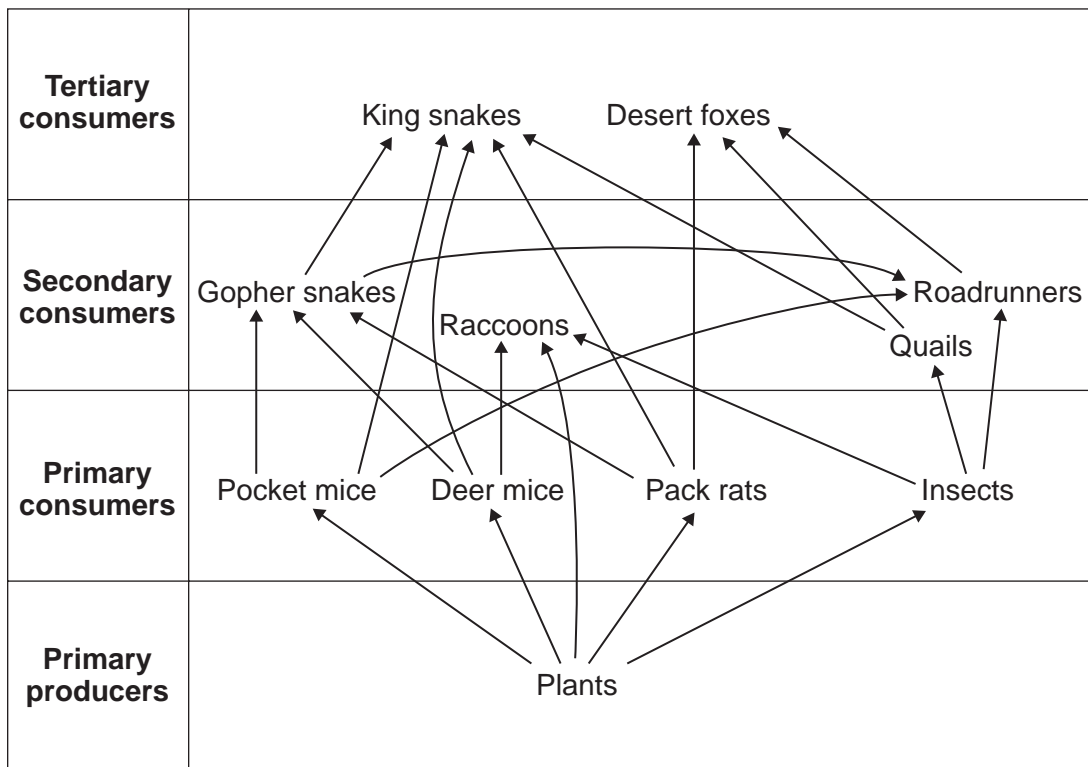
*(8 marks)***0 6**

Evaluate the possible effects of global warming on **one** tropical region that you have studied.

*(10 marks)***Turn over ►**

Option 3 Ecosystems: Change and Challenge
Total for this option: 25 marks
0 7 Study **Figure 3** which shows a food web for an ecosystem in California.

Describe and comment on the food web shown.

(7 marks)
Figure 3

0 8 Explain how energy flows operate within an ecosystem.

(8 marks)
0 9 With reference to the biome of **one** tropical region that you have studied, discuss the adaptations to the climate by vegetation and/or animals.

(10 marks)
End of Section A

Section B

Answer **one** option from this section.

You must not answer the option that you will answer in Section C.

Option 4 World Cities

Total for this option: 25 marks

1 | 0

Study **Figure 4**, a summary of two concepts relating to characteristics of urban decline in inner city areas.

Comment on how these characteristics may impact on the quality of life for people living in these areas. (7 marks)

Figure 4

The concepts of *Firstspace* and *Secondspace* in relation to urban decline

Two elements of urban places, *Firstspace* and *Secondspace*, are said to exist by some social geographers.

- The *Firstspace* is the built environment – it can be seen.
- The *Secondspace* is the perception of the area – imagined in the minds of the residents.

<i>Firstspace</i>	<p style="text-align: center;">Characteristic of urban decline</p> <p>Derelict buildings Graffiti and 'street art' Shutters on buildings Litter on the streets</p>
<i>Secondspace</i>	<p style="text-align: center;">Characteristic of urban decline</p> <p>Area of prostitution Centre of illegality 'Forgotten' district Migrant magnet 'No-go' area</p>

1 | 1

Outline the process of gentrification and describe its effects.

(8 marks)

1 | 2

Evaluate the success of the redevelopment of **one** city centre that you have studied.

(10 marks)

Turn over ►

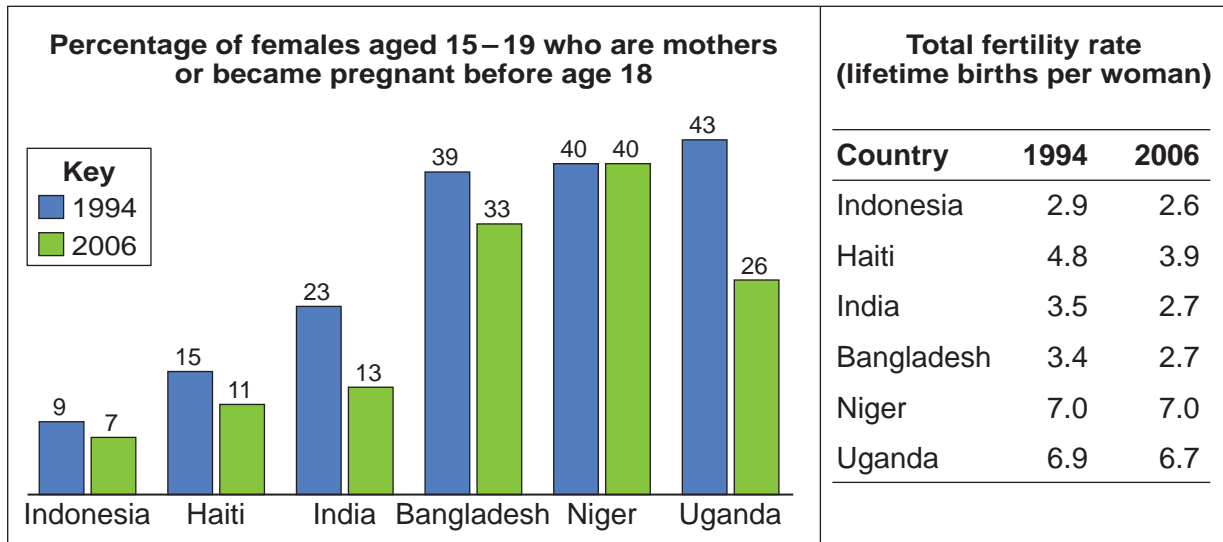
Option 5 Development and Globalisation**Total for this option: 25 marks**

- 1 3** Study **Figure 5** which shows two indicators of fertility for selected countries in 1994 and 2006.

Comment on the development issues that may be evident.

(7 marks)

Figure 5



Source: Population Reference Bureau, 2009 World Population Data Sheet

- 1 4** Outline the ways in which aid is given from one country to another. (8 marks)

- 1 5** Critically evaluate the outcomes of globalisation. (10 marks)

Option 6 Contemporary Conflicts and Challenges

Total for this option: 25 marks

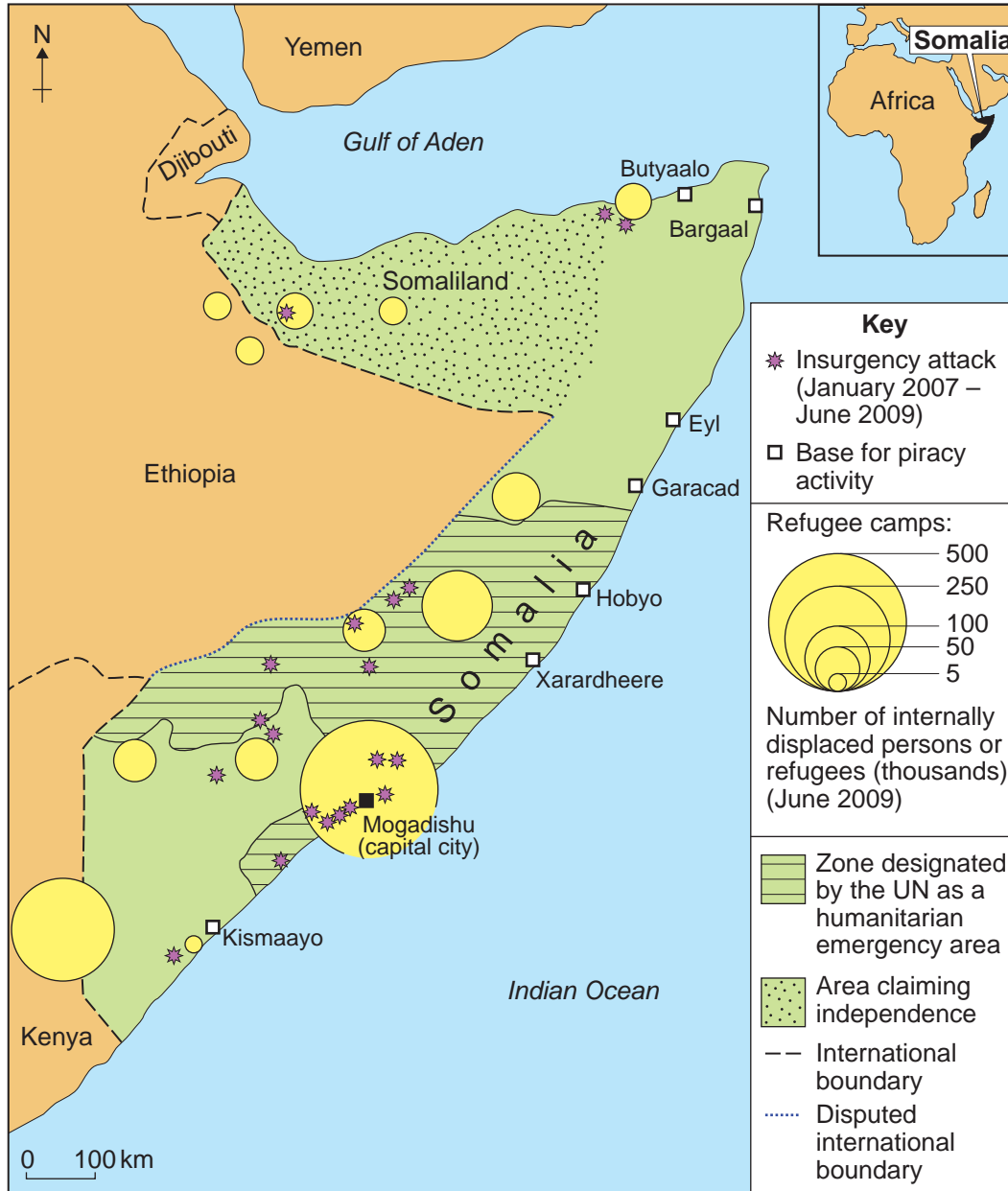
1 | 6

Study **Figure 6** which shows a range of indicators of conflict and instability in Somalia in 2009.

Comment on the information shown.

(7 marks)

Figure 6



1 | 7

With reference to a conflict over the use of a local resource, outline the reasons for the conflict and the attitudes of different groups of people to it. (8 marks)

1 | 8

Discuss the outcomes of the conflict outlined in Question 17, for both those who may lose and those who may benefit. (10 marks)

End of Section B

Turn over ►

Section C

Answer **one** option from this section.

You must not answer the option answered in either Section A or Section B.

Note to Candidate

You should bear in mind that the essay questions below are synoptic in nature. In your response to these questions you are required to show your knowledge and understanding of different aspects of geography, the connections between these different aspects and, where relevant, of human perspectives upon geographical themes and issues.

Option 1 Plate Tectonics and Associated Hazards

1	9
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'Natural disasters are often not natural disasters, but are in fact human disasters.'
(AQA Geography student – June 2010)

Discuss this statement in relation to seismic events. *(40 marks)*

Option 2 Weather and Climate and Associated Hazards

2	0
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'Large cities have their own climatic conditions.' (Andrew Goudie)

To what extent is this true? *(40 marks)*

Option 3 Ecosystems: Change and Challenge

2	1
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How successful can the management of fragile environments be, given the constant and increasing demand for their exploitation? *(40 marks)*

Option 4 World Cities

2	2
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How successful has the regeneration of urban areas been, given the variety of ways in which it has been undertaken? *(40 marks)*

Option 5 Development and Globalisation

2	3
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'Commerce with all nations, alliance with none, should be our motto.'
(Thomas Jefferson)

To what extent do you agree with this statement in relation to trade between countries and the groupings of nations? *(40 marks)*

Option 6 Contemporary Conflicts and Challenges

2	4
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'Living in a multicultural society takes time.' (Jeresa Hren)

To what extent is this illustrated by the challenge of multicultural societies in the UK? *(40 marks)*

END OF QUESTIONS

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