

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
TOTAL	



General Certificate of Education
Advanced Subsidiary Examination
January 2011

General Studies (Specification B)

GENB2

Unit 2 Space

Monday 17 January 2011 9.00 am to 10.30 am

For this paper you must have:

- a Source Booklet enclosed as an insert.
You may use a calculator.

Time allowed

- 1 hour 30 minutes

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work 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.
- All questions should be answered in continuous prose, except 1(b)(i).

Advice

- Where appropriate use examples to illustrate your answer.
- The recommended time allocation for this examination is as follows:
 - Question 1: 30 minutes
 - Question 2: 30 minutes
 - Question 3: 30 minutes



J A N 1 1 G E N B 2 0 1

Sources **A** to **E** are provided in the enclosed Source Booklet.

Answer **all** questions.

1 Study Sources **A** and **B** and then answer the following questions.

1 (a) Referring specifically to the data in **Source A**, describe and suggest reasons for the pattern of expenditure by NASA over the period 2008–2012. (10 marks)

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1 (b) (i) Using **Source B**, calculate the percentage of the space budget that was spent on 'Technology and Exploration' **and** on 'Earth Observation' together by the European Space Agency (ESA).

You are advised to show how you arrived at your answer. (4 marks)

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1 (b) (ii) Suggest **three** reasons why satellite observation of the Earth is important to both Europe and the USA. *(6 marks)*

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2 Study **Sources C** and **D** and then answer the following questions.

2 (a) Explain the benefits of living in a multi-cultural society (**Source C**). (10 marks)

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2 (b) Explain the view that living in a multi-cultural society can present problems (**Source D**).
(10 marks)

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3 (b) Why might some people argue that the introduction of new and former species may upset the current environmental balance? *(15 marks)*

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END OF QUESTIONS



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ANSWER IN THE SPACES PROVIDED**

