

Thursday 23 May 2013 – Afternoon

AS GCE GENERAL STUDIES

F732/01 The Scientific Domain

Candidates answer on the Question Paper.

OCR supplied materials:
None

Other materials required:

- Scientific calculator

Duration: 1 hour



Candidate forename		Candidate surname	
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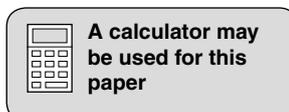
Centre number						Candidate number				
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INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Answer **all** the questions in Section A and **one** question in Section B.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined pages on pages 11–12 of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the bar codes.

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 **60**.
- You are advised to divide your time equally between Sections A and B.
- **The quality of your written communication will be assessed, including clarity of expression, structure of arguments, presentation of ideas, grammar, punctuation and spelling.**
- This document consists of **12** pages. Any blank pages are indicated.



SECTION B

Answer **one** question from this section.
Your answer should be in continuous prose.

- 3** The UK has a target of increasing its use of renewable energy sources to 15% of its total energy consumption by 2020. Renewable energy sources include for example, water, solar, wind, biomass and geothermal.

Describe **four** disadvantages of using renewable energy sources, giving examples from your own knowledge and experience. **[30]**

- 4** Scientists have contributed solutions to many medical problems. Current problem areas include:

- ageing population
- obesity
- drug and alcohol problems
- mental health problems.

Funds for medical research are limited.

Select **two** of these problem areas. Argue the case for giving **one** of them priority over the other for funding. **[30]**

- 5** Scientists involved in space exploration are experimenting with the possibility of growing food in space.

Describe how, in the future, this research may have benefits on earth and in space. **[30]**

Write the number of the question answered in the margin.

A vertical margin line is positioned on the left side of the page. To the right of this line, there are 25 horizontal dotted lines extending across the page, providing a grid for marking answers.

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.

A large area of lined paper for writing answers. It features a vertical margin line on the left side and horizontal dotted lines for writing. The lines are evenly spaced and extend across the width of the page.

