




THIS SPECIMEN PAPER IS FOR CENTRE USE TO FAMILIARISE CANDIDATES WITH THE NEW LAYOUT OF THE F732 QUESTION PAPER. THIS LAYOUT WILL COME INTO EFFECT FROM JANUARY 2013.

	ADVANCED SUBSIDIARY GCE GENERAL STUDIES The Scientific Domain	F732
	<p>Candidates answer on the Question Paper.</p> <p>OCR supplied materials: None</p> <p>Other materials required:</p> <ul style="list-style-type: none"> An electronic calculator 	<p>Wednesday 25 May 2011 Afternoon</p> <p>Duration: 1 hour</p>





Candidate forename		Candidate surname	
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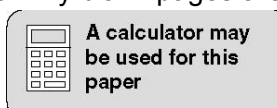
Centre number						Candidate number			
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INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. 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 page on page 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 A

Answer **all** the questions in this section

- 1 A student was asked to submit a first draft for an investigation into the attitudes of people in the UK to further expenditure on space exploration.

First draft (submitted by the student)

Title: An investigation into the attitudes of people in the UK to further expenditure on space exploration.

Outline: I intend to use a questionnaire and ask people about their attitudes to further space exploration. I will collect data and draw conclusions based upon the replies I receive.

The tutor wrote the following comments on this first draft:

- this is a promising start with potential
- you will need a representative sample for your questionnaire
- at the moment the term 'attitudes of people' is rather broad
- do you intend to use open or closed questions in the questionnaire?
- once your data is collected how will you analyse it in order to reach conclusions?
- the issue of expenditure appears to have been lost in your first outline.

- (a) Why does the tutor suggest that the student should use a 'representative sample'?

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[3]

- (b) How could the student refine the term 'attitudes of people'?

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[3]

(c) Explain the difference between 'open' and 'closed' questions.

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[3]

(d) Why does the tutor comment about the issue of expenditure?

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[3]

(e) Write a revised draft of this proposal [use about 100 words].

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[6]

- 2 (a) Calculate the value of **each** of the following.

$$12^2 + 33^2$$

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$$8^2 - 4^2$$

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What do you notice about **each** total calculated?

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[4]

- (b) In the three equations shown in Fig. 1 each shape represents a number between 5 and 10.

Find the three numbers, between 5 and 10, that are represented by the shapes in the three equations shown and fill them in Fig 1 below. Show clearly how you came to your answer. [5]


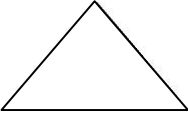
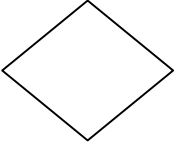
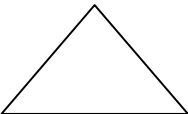
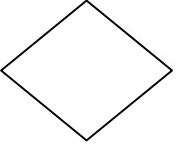

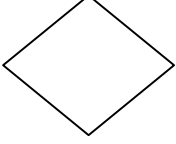
	×		=	60		
	+		+		=	16
	-		=	5		

Fig. 1

Please show any workings in the box below.

- (c) Advertisements and retail stores often promote the offer 'Buy one get one free'. Outline **two** ways in which customers should be suspicious of this offer.

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[3]

SPECIMEN

Section B

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

- 3** Explain how, by considering different time scales (e.g. short term, medium term and long term), different solutions might be proposed to the same scientific problem. **[30]**
- 4** What is meant by the term 'genetic engineering'?
Describe **two** successful outcomes of genetic engineering. Explain **one** concern that people have about genetic engineering. **[30]**
- 5** Scientists have contributed to developments related to birth rates. Describe **two** advantages and **two** disadvantages of these developments. **[30]**

Write the number of the question answer in the margin.

A vertical line on the left side of the page defines a margin. The rest of the page is filled with horizontal dotted lines for writing. A large, light gray watermark reading "SPECIMEN" is oriented diagonally across the page.

A blank sheet of lined paper with a vertical margin line on the left and horizontal dotted lines for writing. A large, faint watermark reading "SPECIMEN" is diagonally across the page.

A large grid for writing, consisting of a vertical line on the left and 25 horizontal dotted lines. The grid is intended for students to write their answers to the questions on the previous page.

A blank sheet of lined paper with a vertical margin line on the left and horizontal dotted lines for writing. A large, light gray watermark reading "SPECIMEN" is oriented diagonally across the page.

A large grid of dotted lines for writing, with a vertical solid line on the left side. A large, light gray watermark reading 'SPECIMEN' is diagonally overlaid across the grid.

ADDITIONAL ANSWER SPACE

If additional answer space is required, you should use the following lined page. The question number(s) must be clearly shown in the margin.

A large rectangular area with horizontal dotted lines for writing. A vertical solid line runs down the left side of this area, creating a margin. A large, faint, diagonal watermark reading 'SPECIMEN' is overlaid across the entire writing area.

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