

**ADVANCED SUBSIDIARY GCE
DESIGN AND TECHNOLOGY**

Advanced Innovation Challenge

F521/02

SESSION 3 – REFLECTION TEST

Candidates answer on the question paper.

OCR supplied materials:

None

Other materials required:

- Candidates completed answer booklet

**Thursday 20 January 2011
Morning**

Duration: 1 hour



Candidate
forename

Candidate
surname

Centre number

Candidate number

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.
- This paper contains two questions – you are to answer **both** questions.
- You are advised to spend 30 minutes on each question.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- You may use annotated sketches to support your written answer.
- 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.
- **You should have the answer booklet that you produced in sessions 1 and 2 to assist you during this paper.**
- The total number of marks for this paper is **20**.
- This document consists of **8** pages. Any blank pages are indicated.

Examiner's Use Only:

1

2

Total

Answer **both** questions in the space provided

1 Reflect on the product you have designed.

Human factors are important for designers and manufacturers to consider when developing a product.

Prepare a discussion that reflects your product and which considers these issues.

You should include:

- Details of the human factors that affect your design.
- Any modifications you would make to your product to improve its human interface.
- Cost implications of these improvements.

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2 Reflect on the product you have designed.

The scale of production is an important factor for designers and manufacturers to consider when developing a product.

Prepare a discussion that reflects your product and which considers this issue.

You should include:

- The scale and methods of production most suitable for your product.
- Materials and manufacturing implications.
- Any modifications you would make to your product to improve economic viability.

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