

**Tuesday 22 May 2012 – Afternoon**

**AS GCE DESIGN AND TECHNOLOGY**

**F521/02** Advanced Innovation Challenge

**SESSION 3 – REFLECTION TEST**

Candidates answer on the Question Paper.

**OCR supplied materials:**

None

**Other materials required:**

- Candidate's completed answer booklet

**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.
- 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			
<b>Total</b>			

Answer **both** questions in the space provided.

1 Ergonomics and human factors are important factors for designers to consider when developing a product.

Prepare a discussion that **reflects on your product** and addresses the ergonomic issues that affect your product.

You should include:

- Examples of where consideration of anthropometric data would be necessary to improve the ergonomics of your product.
- Modifications you would make to improve its ergonomic design.
- The cost implications of these ergonomic modifications.

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2 Designers and manufacturers consider aesthetics when developing any product.

Prepare a discussion that **reflects on your product** and addresses the aesthetic issues.

You should include:

- Modifications you would make to your product to improve its aesthetic appeal.
- How these modifications would improve the commercial viability of your product.
- Levels and methods of production that could be used for your modified product.

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