



**GENERAL CERTIFICATE OF SECONDARY EDUCATION**  
**MANUFACTURING**  
 Manufacturing Processes

**B232**

Candidates answer on the Question Paper

**OCR Supplied Materials:**  
None

**Other Materials Required:**  
None

**Wednesday 23 June 2010**  
**Morning**  
 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 clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- 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).

**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**.
- Your Quality of Written Communication is assessed in questions marked with an asterisk (\*).
- This document consists of **8** pages. Any blank pages are indicated.

- 1 (a) Manufacturing sectors produce different products.  
Complete the links below to identify which manufacturing sector makes the products listed.

Manufacturing Sector	Product
Clothing and Textiles	Caravan
Electrical and communications	Christmas cake
Food and drink	Dining table
Furniture	Shoes
Machinery and equipment	Pop-up book
Motor manufacturing	Torch
Paper and print	Washing machine

[7]

- (b) State **two** manufacturing sectors not shown above and a product made in each sector.

Sector: ..... [1]

Product: ..... [1]

Sector: ..... [1]

Product: ..... [1]

- 2 Describe how you used **two** tools or items of equipment safely when manufacturing a product.

Product .....

First tool or item of equipment .....

.....

..... [2]

Second tool or item of equipment .....

.....

..... [2]

3 (a) Describe **one** activity carried out in each of the following stages of manufacture of a product.

- Processing;
- Finishing;
- Packaging.

Product .....

Processing .....

..... [2]

Finishing .....

..... [2]

Packaging .....

..... [2]

(b) Describe how quality standards are applied when carrying out **one** of the activities you have described above.

..... [2]

4 When manufacturing products it is important to select appropriate processes, components, tools and equipment.

For a named product, give details of an appropriate:

- manufacturing process;
- component;
- tool or piece of equipment.

Product.....

Manufacturing process .....

..... [1]

Why the process is appropriate .....

..... [1]

Component .....

..... [1]

Why the component is appropriate .....

..... [1]

Tool or piece of equipment.....

..... [1]

Why the tool or piece of equipment is appropriate .....

..... [1]

5 Modern technologies are used by manufacturing industries.

(a) Describe how modern technologies are used:

- when selecting materials;
- to calculate production costs;
- in production planning.

Selecting materials.

.....  
.....  
.....  
..... [2]

Calculate production costs.

.....  
.....  
.....  
..... [2]

Production planning.

.....  
.....  
.....  
..... [2]

(b) Describe **two** benefits of using information technology when calculating production costs.

Benefit 1.....  
.....  
..... [2]

Benefit 2.....  
.....  
..... [2]

- 6 (a) Describe **two** methods of researching existing products to identify materials or ingredients used in their manufacture.

Method 1 .....  
.....  
..... [2]

Method 2 .....  
.....  
..... [2]

- (b) Describe **one different** method you could use to investigate the forms and quantities in which a material or ingredient is supplied.

.....  
.....  
..... [2]

- (c) State **two** materials, components or ingredients supplied in powder form.

Powder 1 ..... [1]

Powder 2 ..... [1]

- (d) Give **one** potential hazard of using a powder in manufacturing.

.....  
..... [1]

7 Give justified reasons why each of the following factors is considered when selecting production methods.

- Labour
- Health safety and hygiene
- Market needs

Labour

.....  
.....  
..... [2]

Health, safety and hygiene

.....  
.....  
..... [2]

Market needs

.....  
.....  
..... [2]

