



Answer ALL the questions in Section A and Section B.

**SECTION A**

Answer ALL the questions in this section. Write your answers in the spaces provided.

1. All of the products listed below belong to a manufacturing sector.

(a) Tick the **two** boxes below where the products belong to the **textiles** sector.

Products	Tick <b>two</b> boxes below
Synthetic fibres	
Plastic ruler	
Soy sauce	
China mug	
Paperback book	
Teflon coated fabric	

(2)

(b) Tick the **two** boxes below where the products belong to the **clothing** sector.

Products	Tick <b>two</b> boxes below
Carrier bag	
Waterproof jacket	
De-icer	
Dungarees	
Light bulb	
Dried yeast	

(2)

Q1

(Total 4 marks)




Leave blank

2. The table shows some equipment used in the manufacture of products.

Complete the table by:

- (a) Naming each piece of equipment;
- (b) Explaining what each piece of equipment is used for.

The first one is done for you.

Equipment	Equipment name	Use
	Needle	To sew fabrics together. To add detail to a product by embroidery or appliqué. To attach fastenings to a product eg. buttons, hook and eye.

		
---	--	--

(3)

		
---	--	--

(3)

Q2

(Total 6 marks)



Leave blank

3. Draw a straight line to link each term listed below to a key area.

Each key area can be used more than once.

**Term**

**Key area**

Computer Integrated Manufacturing (CIM)

Information and Communications Technology (ICT)

Polymers

Process control

Modern materials

Liquid crystal coated fabrics

Internet sites

Control technology

Databases

Q3

(Total 6 marks)



Leave  
blank

4. Weather protective jackets belong to the textiles and clothing sector.

(a) (i) Name **one** other product from this sector, apart from **weather protective jackets**, that utilises in its manufacture control technology and modern materials.

.....  
(1)

(ii) Explain how the product can be used.

.....  
.....  
.....  
(2)

(b) (i) State **one** stage in the manufacture of the product you named in 4(a)(i) where control technology is used.

.....  
(1)

(ii) Explain **one** advantage to the **manufacturer** of using control technology at this stage.

.....  
.....  
.....  
(2)

(c) (i) State **one** modern material used in the manufacture of the product you named in 4(a)(i).

.....  
(1)

(ii) Describe how this modern material improves the characteristics of the product.

.....  
.....  
.....  
.....  
(2)

(Total 9 marks)

Q4



Leave  
blank

5. Computer-aided manufacture (CAM) and Computer-aided design (CAD) are both used by manufacturers of textiles and clothing products.

(a) (i) Give **one** example of where Computer-aided manufacture (CAM) is used by a manufacturer.

.....  
(1)

(ii) Explain the benefits to the **manufacturer** of using Computer-aided manufacture (CAM) relating to the example given in 5(a)(i).

.....  
.....  
(2)

(b) (i) Give **one** example of how Computer-aided design (CAD) is used by a manufacturer.

.....  
(1)

(ii) Explain the benefits to the **manufacturer** of using the Computer-aided design (CAD) relating to the example given in 5(b)(i).

.....  
.....  
(2)

(c) Explain **one** benefit to the **retailer** of the manufacturer using Computer-aided manufacture (CAM).

.....  
.....  
(2)

(Total 8 marks)

Q5



Leave  
blank

6. Communications technology is now widely used by manufacturers.

- (a) Name **two** examples of communications technology.
- (b) Describe the traditional communications method it has replaced.
- (c) Explain **one** benefit to the manufacturer of using this replacement new technology.

**Example 1**

Communications technology 1 .....  
.....  
(1)

Method it has replaced .....  
.....  
(1)

Benefit of replacement .....  
.....  
.....  
(2)

**Example 2**

Communications technology 2 .....  
.....  
(1)

Method it has replaced .....  
.....  
(1)

Benefit of replacement .....  
.....  
.....  
(2)

(Total 8 marks)

Q6



Leave  
blank

7. Handling information and data is an essential feature in textiles and clothing manufacturing companies.

Explain the benefits information and data handling systems have on:

(a) production efficiency .....

.....

.....

.....

.....

(2)

(b) marketing .....

.....

.....

.....

.....

(2)

Q7

(Total 4 marks)

**TOTAL FOR SECTION A: 45 MARKS**





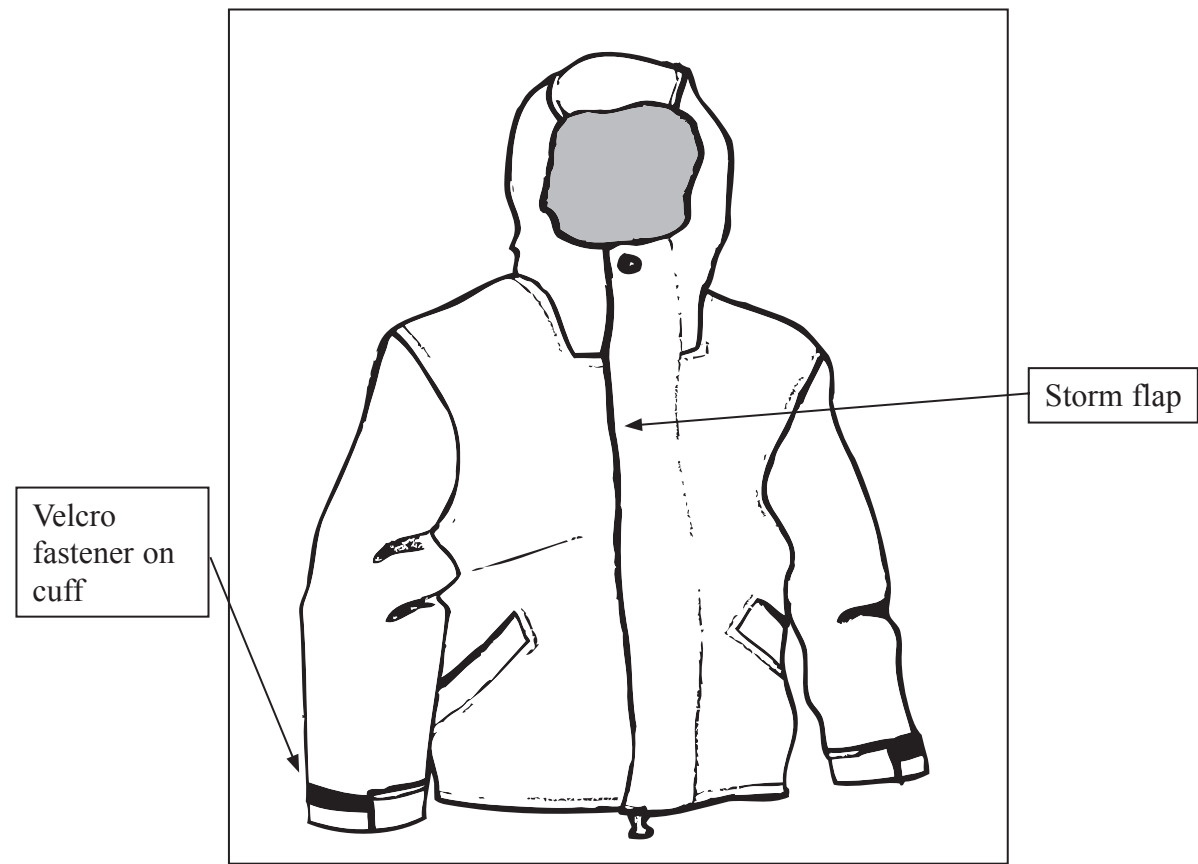
**BLANK PAGE**



SECTION B

Answer ALL the questions in this section with reference to the manufacture of mass produced weather protective jackets. Write your answers in the spaces provided.

The diagram below shows a weather protective jacket.



Leave  
blank

8. In the boxes below, explain, using notes and sketches:

(a) the function of the velcro fastener on cuff

Velcro fastener on cuff

(3)

(b) the function of the storm flap.

Storm flap

(3)

Q8

(Total 6 marks)

11

Turn over



Leave blank

9. (a) The following table indicates the main stages in manufacturing weather protective jackets.

Design
Production planning
Materials supply and control
Assembly and finishing
Packaging and dispatch

(i) Write in the table above the **two** missing stages in manufacturing weather protective jackets. (2)

(ii) State the stage where the “Swing Ticket” information is applied.

Stage ..... (1)

(b) Describe the following **two** stages in the manufacture of weather protective jackets.

(i) Production planning .....

.....  
.....  
.....  
..... (3)

(ii) Packaging and dispatch .....

.....  
.....  
.....  
..... (3)

(Total 9 marks)

Q9



Leave blank

10. (a) Name the specific material commonly used on weather protective jackets to make them:

(i) water-repellant

..... (1)

(ii) breathable.

..... (1)

(b) Coatings can be used in the manufacture of weather protective jackets.

(i) Explain the functions of coatings.

.....  
.....  
.....  
..... (3)

(ii) Name **two** materials that could be used as a coating.

1 .....  
2 ..... (2)

(c) Explain how the use of modern materials has helped the **manufacturer** of weather protective jackets develop new products.

.....  
.....  
.....  
.....  
..... (3)

(Total 10 marks)

Q10

--	--



Leave  
blank

11. (a) Describe **two** quality control procedures used at the **packaging stage** of the manufacture of the weather protective jackets that utilise monitoring control technology.

(i) Quality control procedure 1

.....  
.....

(2)

(ii) Quality control procedure 2

.....  
.....

(2)

(b) Explain **one** benefit of applying each quality control procedure, described in (a) above, to the **manufacturer**.

(i) Benefit of procedure 1

.....  
.....

(2)

(ii) Benefit of procedure 2

.....  
.....

(2)

(c) Explain **one** benefit of applying each quality control procedure, described in (a) above, to the **consumer**.

(i) Benefit of procedure 1

.....  
.....

(2)

(ii) Benefit of procedure 2

.....  
.....

(2)

(Total 12 marks)

Q11



**BLANK PAGE**



Leave  
blank

12. (a) The utilisation of modern technology in the manufacture of weather protective jackets has brought changes. Explain these changes in:

(i) the type and size of the workforce .....

.....  
.....  
.....  
.....

(2)

(ii) the working environment .....

.....  
.....  
.....  
.....

(2)

(iii) the global environment .....

.....  
.....  
.....  
.....

(2)





Leave  
blank

(b) Describe **one disadvantage** that modern technology has had on the workforce.

.....  
.....  
.....  
.....

(2)

(c) Describe **one advantage** that modern technology has had on the global environment.

.....  
.....  
.....  
.....

(2)

Q12

(Total 10 marks)

--	--





Leave  
blank

(b) Describe how CAM is used to control manufacturing costs.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(4)

Q13

(Total 8 marks)

**TOTAL FOR SECTION B: 55 MARKS**

**TOTAL FOR PAPER: 100 MARKS**

**END**



**BLANK PAGE**

