

Answer ALL questions in Section A and Section B.

SECTION A

Answer ALL 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 two boxes below
Laptop case	
Flat screen TV	
Icing sugar	
Roman blind	
Liquid soap	
Fire extinguisher	

(2)

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

Products	Tick two boxes below
High-visibility vest	
Olive oil	
Driving gloves	
Road atlas	
Suspension bridge	
Embroidered cushion	

(2)

Q1



(Total 4 marks)



2. The tables below show some equipment used in the manufacture of products.

(a) Complete Table 1 by naming the equipment.



Table 1

Equipment	Equipment name	Use
		Used to press out any creases in a textile garment/product.
		Used to hold and secure the thread that is housed within the sewing machine. Can be top or side loaded.

(2)

(b) Complete Table 2 by explaining the use of the equipment.

Table 2

Equipment	Equipment name	Use
	Quick unpick	
	Embroidery ring/hoop	

(4)

Q2

(Total 6 marks)



Leave blank

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

Each key area can be used more than once.

Term

Key Area

Continuous operation

(1)

Information and communications technology (ICT)

Computer-aided design (CAD)

(1)

Databases

(1)

Control technology

Polymers

(1)

Automation

(1)

Modern materials

Thermochromic dyes

(1)

(Total 6 marks)

Q3



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4. Children's dungarees belong to the textiles and clothing sector.

(a) (i) Name **one** other product from this sector, apart from a pair of children's dungarees, that utilises in its manufacture information and communication technology and a modern material.

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(1)

(ii) Explain the purpose of the product.

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

(b) (i) Name **one** stage in the manufacture of the product you gave in 4(a)(i) where information and communications technology is used.

.....
(1)

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

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.....
.....
(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 design of the product.

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

(Total 9 marks)

Q4





<p>5. (a) Explain three benefits to a manufacturer of using computer-aided manufacture (CAM).</p> <p>1</p> <p>.....</p> <p>2</p> <p>.....</p> <p>3</p> <p>.....</p> <p style="text-align: right;">(6)</p> <p>(b) Explain how the use of CAM in product manufacture encourages the consumer to buy the product.</p> <p>.....</p> <p>.....</p> <p>.....</p> <p style="text-align: right;">(2)</p> <p style="text-align: right;">(Total 8 marks)</p>	<p>Leave blank</p> <p>Q5</p> <input data-bbox="1612 1463 1656 1531" type="text"/>
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6. In the textiles and clothing industries, communications technology is used to transfer information between suppliers, manufacturers and retailers.

(a) (i) State **one** type of communications technology used to transfer information between suppliers and manufacturers.

..... (1)

(ii) Describe how the use of this communications technology benefits the **manufacturer**.

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

(b) (i) Describe **one** way in which communications technology is used to transfer sales information from textiles and clothing retailers to manufacturers.

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

(ii) Explain how the use of this communications technology benefits the **retailer**.

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..... (3)

(Total 8 marks)

Q6



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7. (a) Explain **one** advantage, other than a financial benefit, of introducing automation to the production stage in clothing manufacture.

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(2)

(b) Explain **one** disadvantage of introducing automation to the production stage in clothing manufacture.

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(2)

(Total 4 marks)

Q7

TOTAL FOR SECTION A: 45 MARKS



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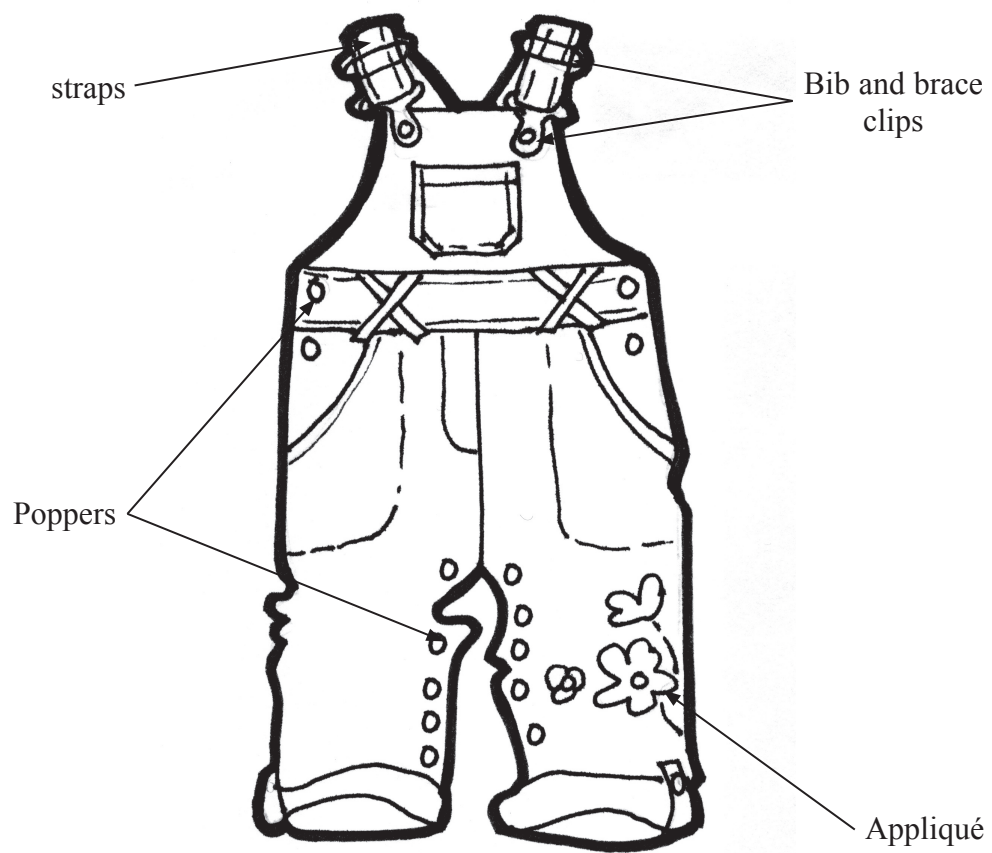
TURN OVER FOR SECTION B



SECTION B

Answer ALL questions in this section with reference to the manufacture of mass produced children's dungarees. Write your answers in the spaces provided.

The diagram below shows a pair of children's dungarees.



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

(a) the function of the bib and brace clips

Bib and brace clips

(3)

(b) the function of the poppers.

Poppers

(3)

Q8

(Total 6 marks)

11

Turn over



9. (a) The following table indicates some of the main stages in manufacturing children's dungarees.

(i) Complete the table below by giving the **two** missing stages in manufacturing children's dungarees.

Stages in manufacturing	
1	Design
2	
3	
4	Material supply and control
5	Production
6	Assembly
7	Packaging and dispatch

(2)

(ii) State the stage where the bib and brace clips are stitched to the straps.

Stage

(1)

(b) Describe the following **two** stages in the manufacture of children's dungarees.

(i) Assembly

.....

(3)

(ii) Packaging and dispatch

.....

(3)

(Total 9 marks)

Q9



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10. (a) Name the specific material, apart from cotton, commonly used in manufacturing each of the following parts of children's dungarees:

(i) the appliqué

.....
(1)

(ii) pocket lining

.....
(1)

(iii) trousers.

.....
(1)

(b) Machine embroidery is a production process and is used in the manufacture of children's dungarees.

(i) State **two** production processes, other than machine embroidery, used during the manufacture of children's dungarees.

1

2

(2)

(ii) Explain why machine embroidery is used.

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(2)

(c) Explain how the use of modern materials has helped the **manufacturer** of children's dungarees to develop new products.

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(3)

(Total 10 marks)

Q10

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11. (a) (i) Give **one** application of quality control during the **production or assembly stage** of the manufacture of children's dungarees.

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(1)

(ii) Describe how quality could be checked in this application.

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(2)

(iii) Explain the benefits to the dungaree wearer of the use of quality control.

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.....
(3)

(b) (i) Apart from quality control, state **one type** of computer control in the **production or assembly stage** of the manufacture of children's dungarees.

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(1)

(ii) Describe the use of this type of computer control.

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.....
(2)

(c) Explain the benefits to the **manufacturer** of the use of computer control.

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(3)

(Total 12 marks)

Q11



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12. Information and communications technology (ICT) plays an important role in the manufacture and sales of children's dungarees.

(a) (i) State **two** uses of ICT in the marketing stage.

1

2

(2)

(ii) Describe **one** use of ICT in the packaging and dispatch stage.

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.....

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(2)

(b) Explain **one** benefit of the use of ICT to the retailer of children's dungarees.

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(2)

(c) Explain the impact ICT has on the design, development and production of children's dungarees.

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(4)

(Total 10 marks)

Q12

TURN OVER FOR QUESTION 13



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13. Automation is often introduced within the manufacture of children's dungarees.

(a) Explain how the introduction of automation has impacted on product cost and the opportunity to introduce new product designs.

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(4)

(b) Evaluate the effect of the use of automation on the workforce and the working environment.

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(4)

Q13

(Total 8 marks)

TOTAL FOR SECTION B: 55 MARKS

TOTAL FOR PAPER: 100 MARKS

END

