

**Oxford Cambridge and RSA Examinations**  
**General Certificate of Secondary Education**

**DESIGN AND TECHNOLOGY (TEXTILES TECHNOLOGY)**  
 PAPER NUMBER 4  
 Higher Tier

**1958/4**

**Specimen Paper 2003**

Additional materials: None

**TIME** 1 hour 15 minutes

Candidate Name	Centre Number	Candidate Number												
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**INSTRUCTIONS TO CANDIDATES**

- Write your name, Centre number and Candidate number in the boxes above.
- Answer **all** the questions.
- Write your answers, in blue or black ink, in the spaces provided on the question paper.
- Read each question carefully and make sure you know what you have to do before starting your answer.

**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 **50**.

Question number	For examiner's use only
<b>1</b>	
<b>2</b>	
<b>3</b>	
<b>4</b>	
<b>5</b>	
<b>TOTAL</b>	

- 1 The manufacturer of high-visibility vests wishes to extend the range to include a fashion Gilet/waistcoat as shown below.

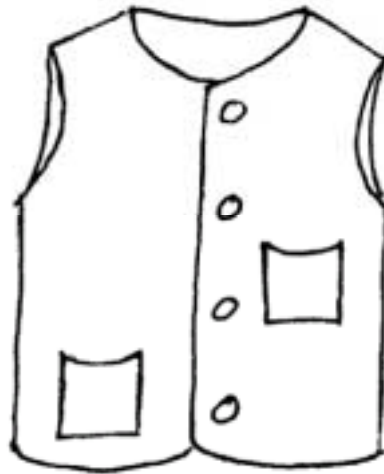


Fig. 1

- (a) The prototype Gilet/waistcoat is to be made.

Name a suitable fabric for the prototype.

\_\_\_\_\_ [1]

- (b) Consumer preference shows that current teenage fashion items use linen.

Give **one** reason why linen has become popular for teenage fashion items.

\_\_\_\_\_ [1]

- (c) Linen-based materials are expensive in comparison to alternatives.

Explain how CAD/CAM could be used by the manufacturer to reduce wastage.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [3]

[Question 1 continued on next page]

**Question 1– continued**

- (d)** The two patch pockets are applied, as shown in Fig. 1.

Using sketches and notes, design an overlay that could be used to position both pockets ready for assembly.

**[5]**

**Total [10]**

2 An initial design for a shower-proof jacket is shown in fig. 2.

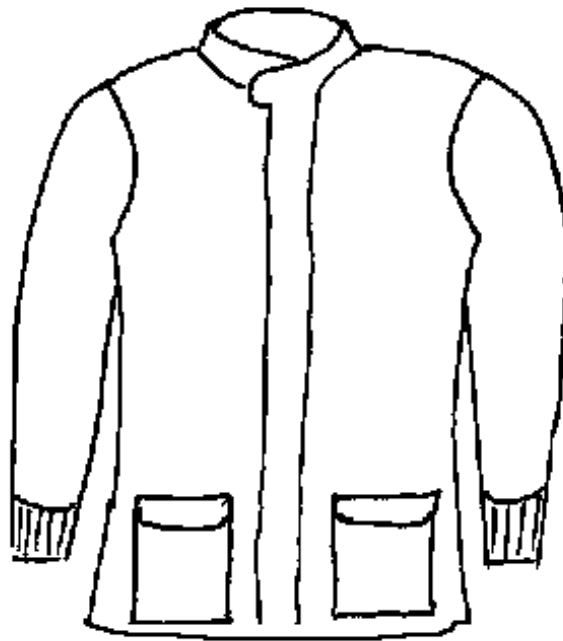


Fig. 2

**SHOWER-PROOF JACKET**

**Features:**

- Breathable
- Shower-proof material
- Fly front cover on zip fastening
- 2 patch pockets
- Elasticated cuffs

(a) Name a suitable material for the jacket.

\_\_\_\_\_

[1]

(b) Give a suitable process for joining the sleeves to the body of the jacket that will retain the shower-proof quality.

\_\_\_\_\_

\_\_\_\_\_

[1]

**[Question 2 continued on next page]**

## Question 2 – continued

(c) Market research has raised the following comments from the teenage market:

- Elasticated cuffs are too restricting.
- Fly front cover on zip front does not lay flat.

Use notes and sketches to show modifications to the basic jacket design for both of these consumer preferences.

(i) cuffs;

[3]

(ii) fly front;

[3]

[Question 2 continued on next page]

**Question 2 – continued**

- (d)** Shower-proof jackets have a limited season for sales, some manufacturers operate a stock control system known as “Just in Time”.

Explain what this system involves, giving the main advantage to the manufacturer.

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**[2]**

**Total [10]**

- 3 (a) Personal preference and cost are important considerations when buying clothing. Identify **one** other consideration which could influence young people. Give reasons for its' influence.

(i) Consideration\_\_\_\_\_ [1]

(ii) Reason\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ [3]



Fig. 3

- (b) Explain how CAD (Computer Aided Design) could be used by a designer to develop design proposals for the jacket in Fig. 3.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ [3]

[Question 3 continued on next page]

**Question 3 – continued**

- (c) Suggest a method or technique to produce the logo during batch manufacture.  
Explain why it is suitable.

Method/technique \_\_\_\_\_ [1]

Reasons \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ [2]

**Total [10]**



4 Modern computerised machinery has revolutionised the knitwear industry and in recent years there has been a boom in the sales of all types of knitted garments.

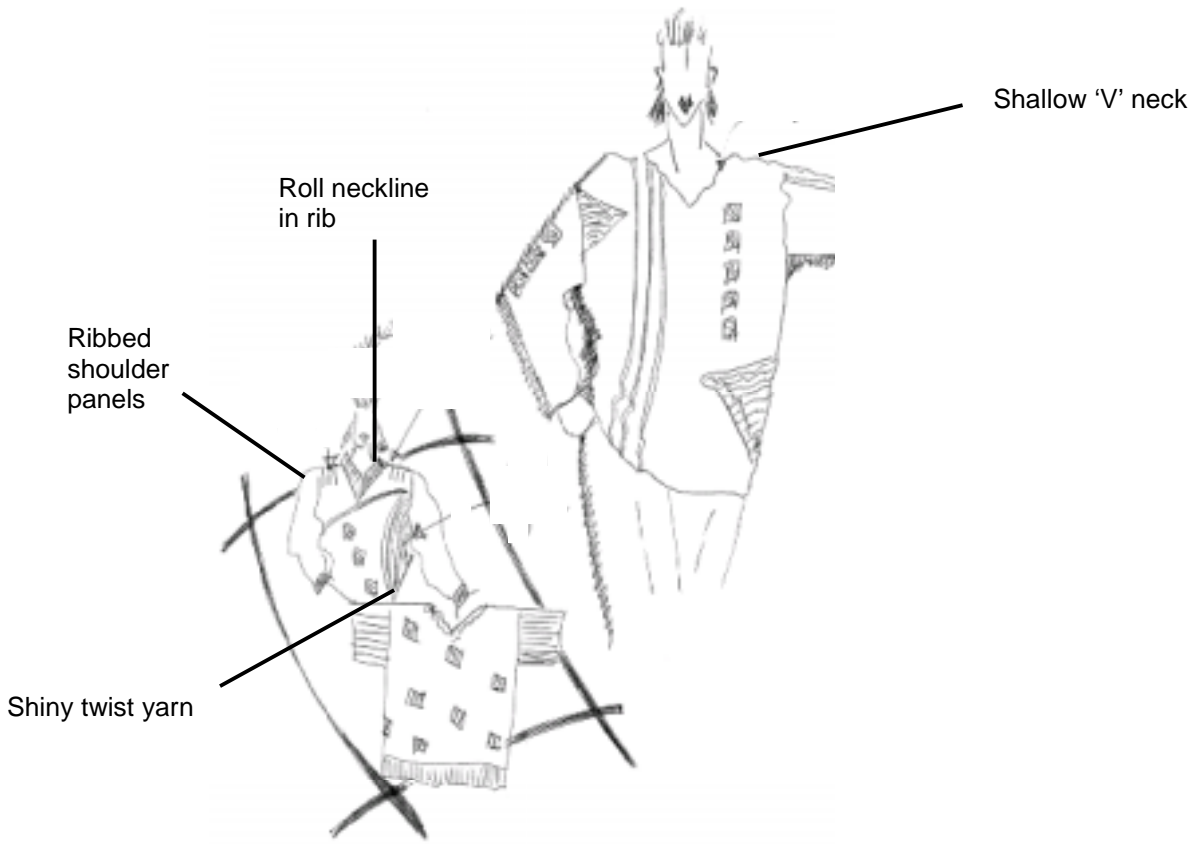


Fig. 4

(a) The jumpers in Fig. 4 are to be made using an electronic knitting machine. State **three** reasons why the designer prefers this method of production.

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[3]

[Question 4 continued on next page]

**Question 4 – continued**

**(b) (i)** Knitted fabrics are produced by interlocking loops of yarn.

Name **two** knitting methods which could be used for the production of the jumpers.

1 \_\_\_\_\_

2 \_\_\_\_\_

**[2]**

**(ii)** State **three** ways these methods differ from each other.

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

**[3]**

**(c)** A designer should consider suitability for comfort and fashion trends when designing knitwear.

Explain how these requirements have been met in the design shown in Fig. 4.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**[2]**

**Total [10]**

**[Turn Over**

5 Fig. 5 shows a fabric design based on traditional African symbols.



Fig. 5

(a) Suggest ways in which this design could be applied to textile fabric.

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[3]

(b) Choose one of the ways you have suggested and explain the advantages of using it for the design.

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[3]

[Question 5 continued on next page]

**Question 5 – continued**

- (c)** The use of different textures can create interesting effects on textile items.  
Use sketches and notes to show how you could create new textures and effects in different parts of the design.

**[4]**

**Total [10]**