

Oxford Cambridge and RSA Examinations
General Certificate of Secondary Education

DESIGN AND TECHNOLOGY (TEXTILES TECHNOLOGY)
 PAPER NUMBER 3
 Foundation Tier

1958/3

Specimen Paper 2003

Additional materials: None

TIME 1 hour

| | | | | | | | | | | | | | | |
|----------------|--|------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Candidate Name | Centre Number | Candidate Number | | | | | | | | | | | | |
| | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; height: 25px;"></td> </tr> </table> | | | | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; height: 25px;"></td> </tr> </table> | | | | | | |
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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 |
|-----------------|-------------------------|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| TOTAL | |

- 1 (a) The picture below shows a child's play mat. The play mat is made from four separate panels.

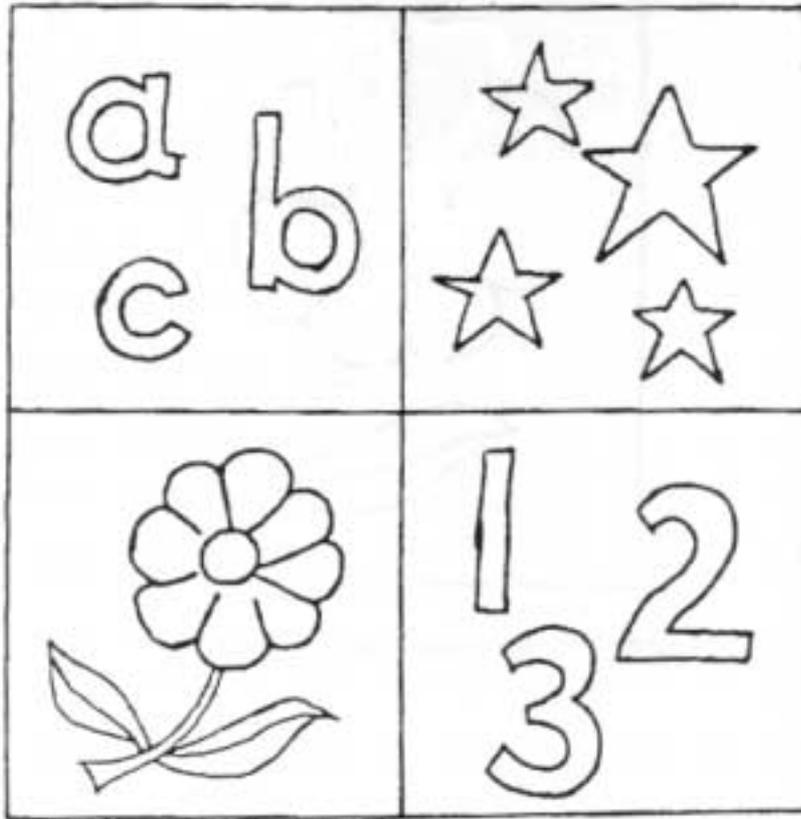


Fig. 1

- (i) On the chart below tick **one** fibre you think would be the most suitable for the four panels of the play mat.

| | |
|------------|------------------|
| Fur fabric | Polyester Cotton |
| Felt | Nylon |

[1]

- (ii) Give **two** reasons for your choice.

Reason 1 _____ [1]

Reason 2 _____ [1]

[Question 1 continued on next page]

Question 1 – continued

- (b) This picture shows a close up view of one of the panels in the play mat, which has been made using appliqué.

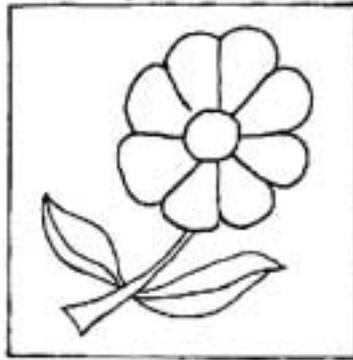


Fig. 2

- (i) Give **two** advantages of using appliqué for the pattern on this panel.

1 _____ [1]

2 _____ [1]

- (ii) 'Vilene' could be put onto the back of the flower shape.

Suggest **two** reasons for this.

_____ [2]

- (iii) How is 'Vilene' constructed?

_____ [1]

- (c) How could CAD/CAM (Computer Aided Design/Computer Aided Manufacture) help the manufacturer produce the star panel?

_____ [2]

Total [10]

2 Fig. 3 shows characters from a pantomime.



Fig. 3

(a) Give **two** reasons why a stretch fabric is suitable for pantomime costumes.

Reason 1 _____ [1]

Reason 2 _____ [1]

(b) Give **two** reasons why an overlocker is a good choice of machine to sew the costume.

Reason 1 _____ [1]

Reason 2 _____ [1]

[Question 2 continued on next page]

Question 2 – continued

(c) Give **two** other ways of adding decoration to the costume.

Method 1 _____

[1]

Method 2 _____

[1]

(d) Darts are often used to give costumes a better fit.

On the diagram below, mark **two** places on each garment where darts would be used.



Fig. 4

[4]

Total [10]

- 3 Fig. 5 shows an incomplete design for a cyclist's high visibility safety vest. The safety vest is to be made from man-made fabric.

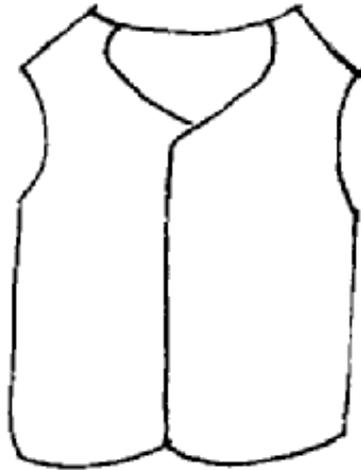


Fig. 5

- (a) What colour would be most suitable for this safety vest?

[2]

- (b) The prototype is sewn together with polyester thread.
Use notes and sketches to suggest how the ends of the seams could be prevented from tearing open.

[2]

[Question 3 continued on next page]

Question 3 – continued

(c) A rapid closure for the front panels is required for use by the wearer.

(i) State a suitable rapid closure system.

_____ [1]

(ii) Why is this system more suitable than buttons and button-holes?

_____ [2]

(d) The safety vest is worn at night as well as in the day.

(i) Give **one** modern material that could be applied to the original vest to achieve this requirement.

_____ [1]

(ii) Describe a suitable method of applying the modern material to the vest.

_____ [2]

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



Fig. 6

- (a) A 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 4 continued on next page]

Question 4 – continued

- (d)** The two patch pockets are applied, as shown in Fig. 6.

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

[5]

Total [10]

5 An initial design for a shower-proof jacket is shown in fig. 7.

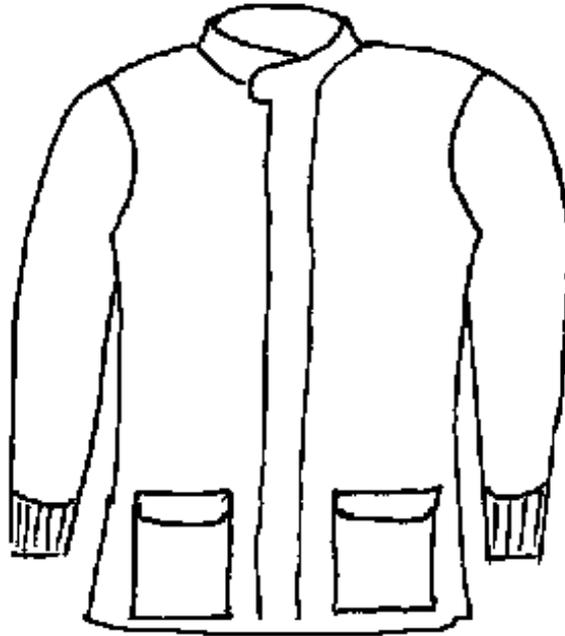


Fig. 7

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 5 continued on next page]

Question 5 – 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 5 continued on next page]

Question 5 – 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.

[2]

Total [10]