

Candidate Name	Centre Number	Candidate Number



OXFORD CAMBRIDGE AND RSA EXAMINATIONS
General Certificate of Secondary Education

D&T: TEXTILES TECHNOLOGY
PAPER 4 (HIGHER TIER)

1958/4

Thursday **16 JUNE 2005** Afternoon 1 hour 15 minutes

Candidates answer on the question paper.
 No additional materials are required.

TIME 1 hour 15 minutes

INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided on the question paper.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question.

The marks allocated and the spaces provided for your answers are a good indication of the length of answers required.

The total number of marks for this paper is **50**.

Question 2, product analysis, is based on the theme 'Cultural Influences in Textiles'.

FOR EXAMINER'S USE	
Q1	
Q2	
Q3	
Q4	
Q5	
TOTAL	

This question paper consists of 11 printed pages and 1 blank page.

1 Fig. 1 shows a power kite.



Fig. 1

(a) The kite is made from ripstop nylon.
Identify two performance characteristics that make ripstop nylon a suitable fabric for the kite.

1 _____
_____ [1]

2 _____
_____ [1]

(b) A prototype of the kite has been made.
Explain the benefits of testing a prototype before manufacturing in quantity.

[4]

(c) The kite is to be manufactured using flow line production. (Repetitive flow)
Describe **two** key points of this production system which make it suitable for manufacturing the kite in quantity.

1 _____
[1]

2 _____
[1]

(d) Consumers are becoming increasingly conscious of environmental issues.
Give **two** ways in which consumers can ensure they are buying environmentally friendly products.

1 _____
[1]

2 _____
[1]

[Total : 10]

2 Product Analysis

Fig. 2 shows a shisha embroidered shantung silk cushion.



Fig. 2

- (a) Shisha embroidery uses mirrors.
Name two alternative pre-manufactured standard components that could be used to decorate the cushion.

1 _____
_____ [1]

2 _____
_____ [1]

- (b) (i) Explain one advantage of using the shisha embroidery technique to decorate the cushion.

_____ [1]

- (ii) Explain one disadvantage of using this technique

_____ [1]

- (c) The cushion design is to be reproduced using the molar technique.
Identify **two** key differences between the **two** techniques

1 _____
_____ [1]

2 _____
_____ [1]

- (d) Shantung is a fabric made from silk fibres.
An alternative would be to use a woven fabric made from viscose fibres.
Give **two** reasons why a viscose fabric would be a suitable alternative.

1 _____
_____ [1]

2 _____
_____ [1]

- (e) Suggest **two** appropriate chemical finishes that could be applied to the viscose fabric cushion cover.

1 _____
2 _____ [2]

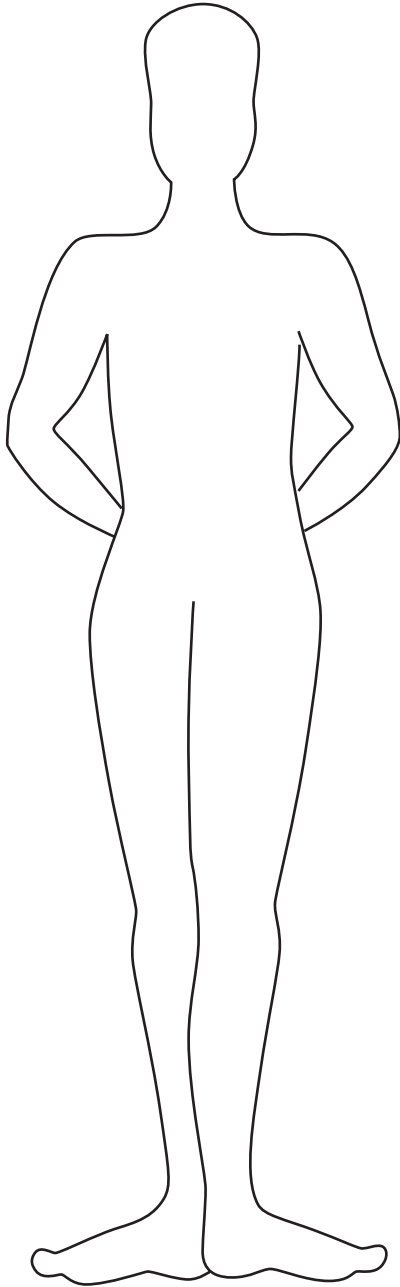
[Total : 10]

3 A company is looking to develop a garment which will hold essential items when the wearer is involved in activities.

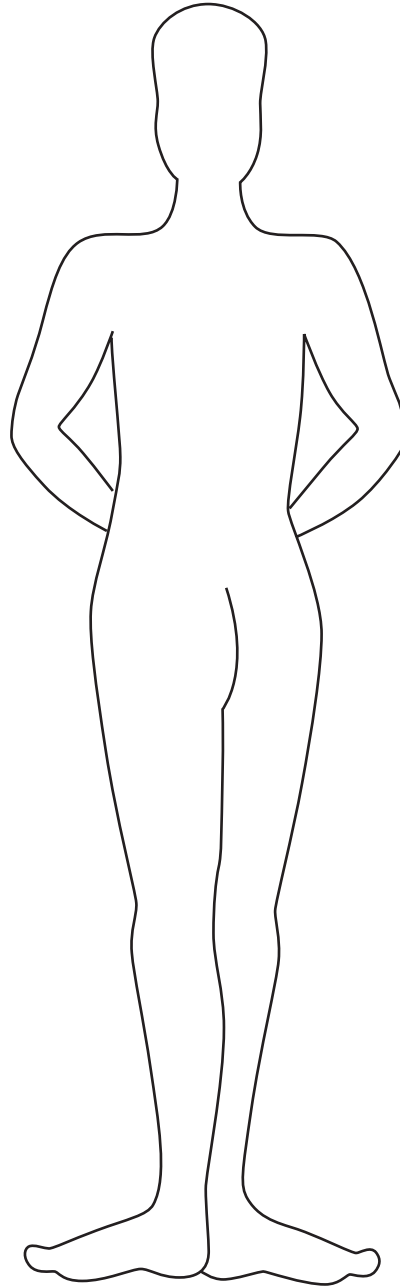
(a) On the drawing below use sketches and notes to design a garment that is able to hold essential items e.g. water bottle, mobile phone, sunglasses, and money.

The design must also address the following issues:

- security;
- multifunctional;
- ease of use.



Front View



Back View

[6]

(b) Explain how CAD could be used by a designer to present a range of design proposals to a potential customer.

[4]

[Total : 10]

4 Fig. 3 shows a body warmer.

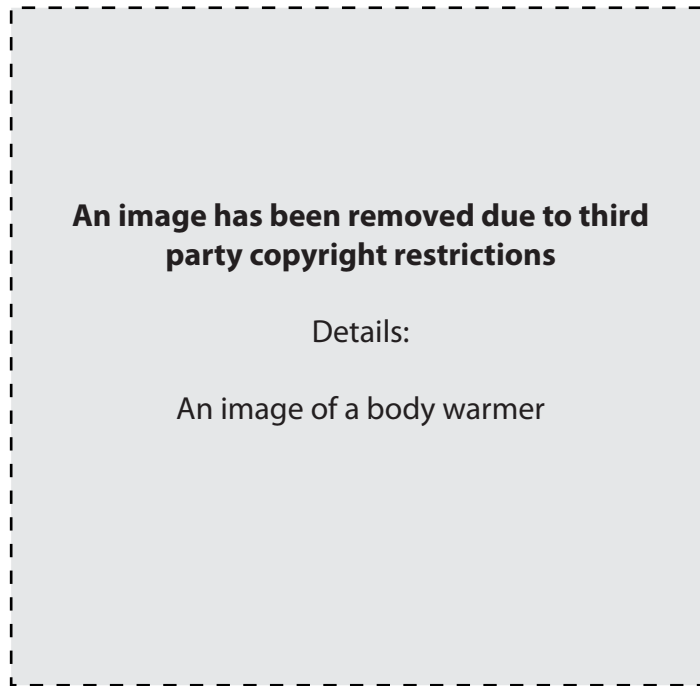


Fig. 3

- (a) Complete the chart below to identify the differences between a pattern lay for a prototype and a pattern lay for batch production.

Prototype	Batch Production
Pattern pieces for one garment laid out on fabric.	Pattern pieces for fifty garments laid out on fabric.

[4]

- (b) The body warmer uses gathers as a method of disposing fullness to shape the garment. Describe using annotated sketches the process of working gathers on a sewing machine.

[6]

[Total : 10]

[Turn over

- 5 Fig. 4 shows a three-colour design that is to be roller printed onto fabric. The fabric is to be used for curtains in a chain of hotels.

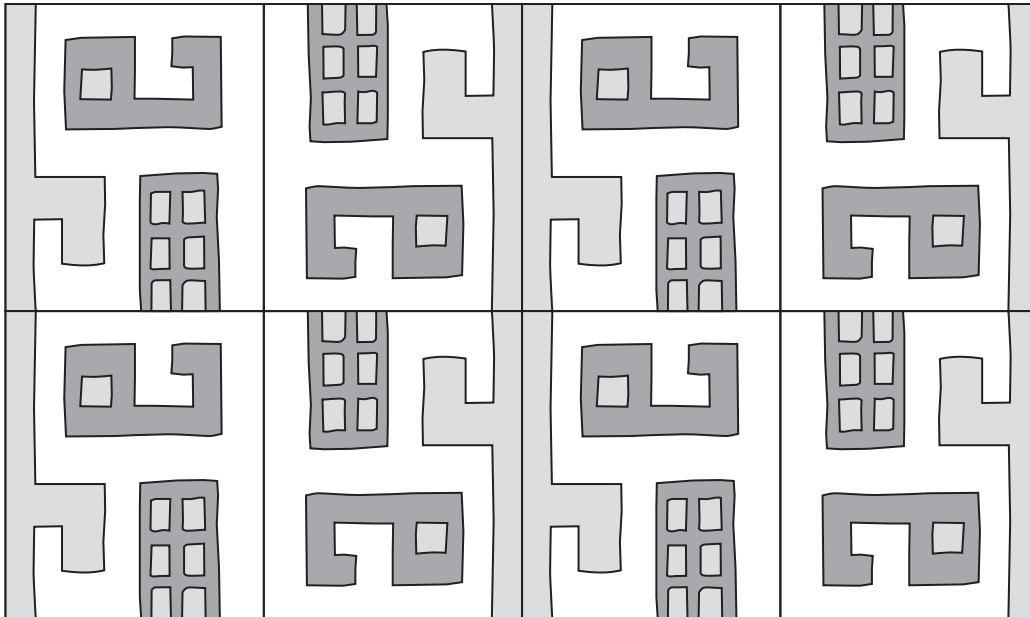


Fig. 4

- (a) Explain why roller printing would be a suitable method of colouring the fabric.

[4]

- (b) The curtains are to be lined with a fabric that has been batch dyed.
Explain why this is a suitable method to colour the fabric.

[2]

- (c) Identify **two** potential risks to the environment when colouring fabric.
Explain how manufacturers can reduce these risks.

[4]

[Total : 10]

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