

<b>Candidate Forename</b>		<b>Candidate Surname</b>	
<b>Centre Number</b>		<b>Candidate Number</b>	

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS  
GENERAL CERTIFICATE OF SECONDARY EDUCATION**

**1958/04**

**DESIGN AND TECHNOLOGY**

**Textiles Technology  
Paper 4 (Higher Tier)**

**TUESDAY 22 JUNE 2010: Morning**

**DURATION: 1 hour 15 minutes**

**SUITABLE FOR VISUALLY IMPAIRED CANDIDATES**

**Candidates answer on the Question Paper**

**OCR SUPPLIED MATERIALS:**

**None**

**OTHER MATERIALS REQUIRED:**

**None**

**READ INSTRUCTIONS OVERLEAF**

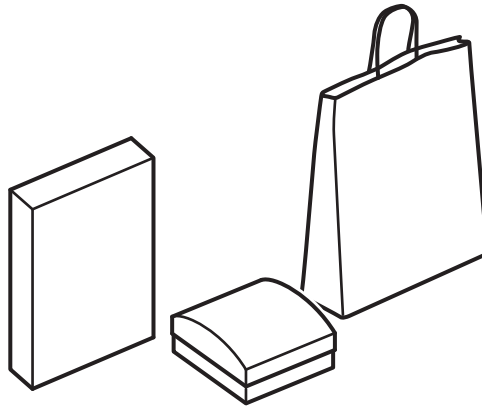
## **INSTRUCTIONS TO CANDIDATES**

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes on the first page.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer ALL the questions.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your Candidate Number, Centre Number and question number(s).

## **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.
- The marks allocated and the spaces provided for your answers are a good indication of the length of answers required.
- Question 2, product analysis, is based on the theme 'SPORTSWEAR'.

**BLANK PAGE**



- (a) Textile products are packaged in a variety of ways. Identify TWO ways of reducing the impact of packaging on the environment.

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

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

**(b) Many British textile companies choose to manufacture their products overseas. Describe TWO DISADVANTAGES of this decision.**

**Disadvantage 1** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ **[2]**

**Disadvantage 2** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ **[2]**

- (c) The continual flow production system is a popular method of textiles manufacture.  
Describe TWO advantages of the continual flow system of manufacture.

Advantage 1 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

Advantage 2 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

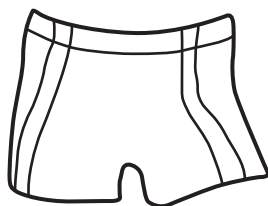
\_\_\_\_\_ [2]

[Total: 10]

## 2 PRODUCT ANALYSIS

- (a) Fig. 1 shows swimwear.  
The swimwear contains elastane fibres.

Fig. 1



**Fibre content**  
**80% POLYAMIDE**  
**20% ELASTANE**

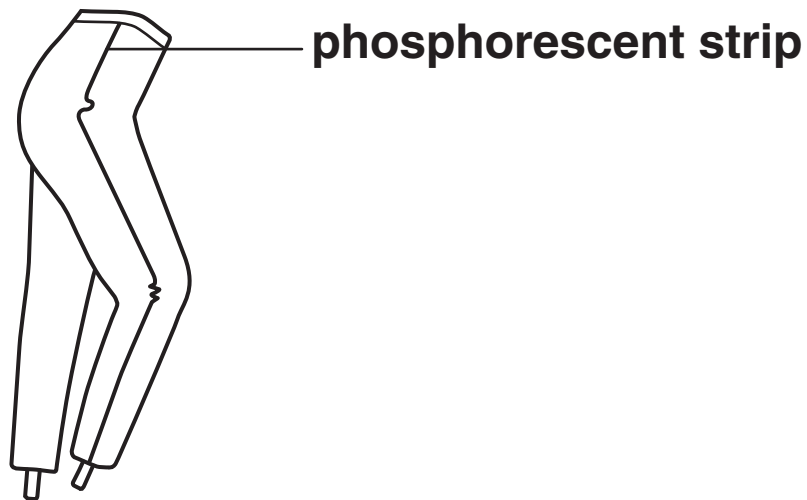
Give TWO reasons why elastane fibres have been included in the swimwear fabric.

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

Reason 2 \_\_\_\_\_  
\_\_\_\_\_ [1]

(b) Fig. 2 shows a pair of running trousers.

**Fig. 2**



State TWO advantages of the phosphorescent strip down the leg.

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

Advantage 2 \_\_\_\_\_  
\_\_\_\_\_ [1]



**(c) Fig. 3 shows a tracksuit top made from ripstop nylon.**

**Fig. 3**



**Explain why this is a suitable fabric to use for the tracksuit top.**

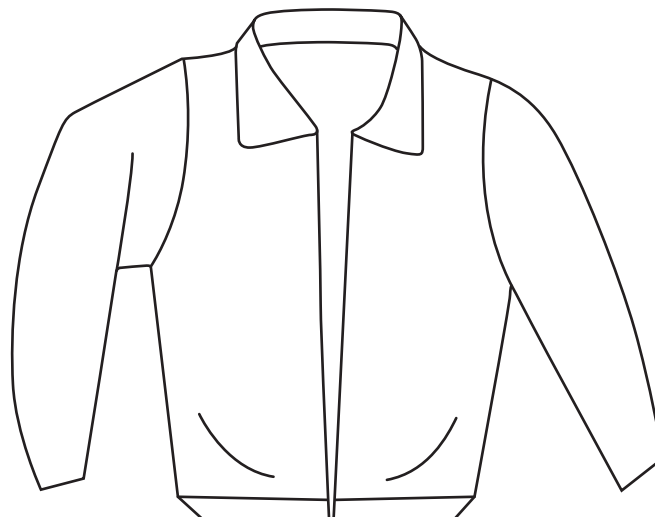
---

---

---

**[2]**

**(d) The top is to be modified for winter sports.  
Using notes and sketches show how the top could be modified.**



**[4]**

**[Total: 10]**

- 3 A textile bag manufacturer wishes to upgrade its range of sports bags.**
- (a) In the space below use sketches and notes to show a design for a bag that addresses the following points:**
- **multi functional;**
  - **ease of use;**
  - **eye-catching.**

**(b) A prototype of the sports bag is to be made.  
Explain the BENEFITS to the manufacturer of  
testing a prototype before volume production.**

---

---

---

---

---

---

---

**[4]**

**[Total: 10]**

- 4 Fig. 4 shows an animal bag carrier made from quilted fabric.

Fig. 4



- (a) Give ONE benefit of using a quilted fabric for the animal bag carrier.

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

- (b) Describe using notes and diagrams, how to quilt fabric.



- (c) The fabric is to be made from microencapsulated fibres.  
Explain TWO ways in which this could improve the animal bag carrier.

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

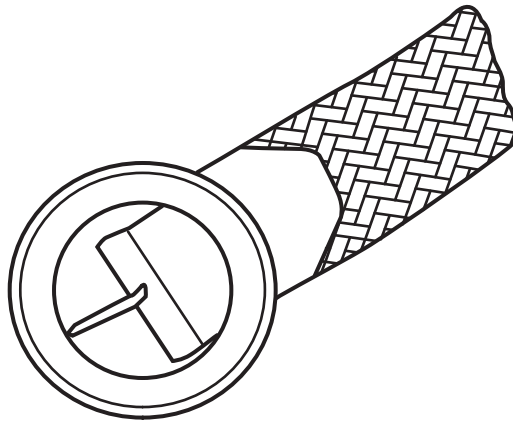
2 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

[Total: 10]

**BLANK PAGE**

- 5 Fig. 5 shows a belt made from hessian. Hessian is a woven fabric made from jute.

Fig. 5



- (a) Explain THREE reasons why jute is considered to be an environmentally friendly fibre.

Reason 1 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

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

Reason 3 \_\_\_\_\_  
\_\_\_\_\_



---

---

[2]

**Fibre and fabric technological developments have produced a range of technical textiles with many uses.**

**(b) Explain what is meant by the term technical textiles using TWO non garment examples.**

---

---

[4]

**[Total: 10]**

**BLANK PAGE**

**BLANK PAGE**

## **Copyright Information**

**OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations, is given to all schools that receive assessment material and is freely available to download from our public website ([www.ocr.org.uk](http://www.ocr.org.uk)) after the live examination series.**

**If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.**

**For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.**

**OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.**