

Candidate forename		Candidate surname	
-----------------------	--	----------------------	--

Centre number						Candidate number				
------------------	--	--	--	--	--	---------------------	--	--	--	--

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

A572

DESIGN AND TECHNOLOGY

Textiles Technology

Sustainable Design

WEDNESDAY 22 JUNE 2011: Morning

DURATION: 1 hour

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, centre number and candidate number in the boxes on the first page. Please write clearly and in capital letters.**
- **Use black ink. Pencil may be used for graphs and diagrams only.**
- **Read each question carefully. Make sure you know what you have to do before starting your answer.**
- **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).**
- **Answer ALL the questions.**

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 60.**
- **Your quality of written communication is assessed in the question marked with an asterisk (*).**

BLANK PAGE

SECTION A

ANSWER ALL QUESTIONS.

You are advised to spend 15 minutes on this section.

On questions 1 – 5 circle your answer.

- 1 Which of the following is primary recycling of garments?**
- (a) Throwing away unwanted garments to landfill sites**
 - (b) Burning unwanted garments**
 - (c) Saving & storing garments**
 - (d) Giving garments to a charity shop** [1]
- 2 Anthropometrics refers to:**
- (a) The study of fibres**
 - (b) The study of people and measurements**
 - (c) Genetic data of people**
 - (d) Fabric and fibre blends** [1]
- 3 Product globalisation refers to:**
- (a) Products only available in the UK**
 - (b) Products made in the UK**
 - (c) Products available around the world**
 - (d) Products made in Europe** [1]

4 Eco-friendly materials are materials that:

(a) Are made in third world countries

(b) Use non renewable resources

(c) Use toxic chemicals

(d) Use natural sustainable resources

[1]

5 A sweatshop is a term used to describe:

(a) A factory with poor working conditions

(b) A factory specialising in manufacturing sweaters

(c) A hot and sweaty environment

(d) A factory specialising in garments

[1]

6 The symbol shown stands for:



**a ball with
matchstick
figures on it**

[1]

7 What does RFID stand for?

_____ [1]

8 What is the name of smart materials that respond to heat?

_____ [1]

9 What is meant by the term Life Cycle?

_____ [1]

10 Name the term used to describe redundant products and their disposal.

_____ [1]

Decide whether each of the following statements is TRUE or FALSE.

Tick (✓) the box to show your answer.

	TRUE	FALSE	
11 Recycle means to buy a new product	<input type="checkbox"/>	<input type="checkbox"/>	[1]

	TRUE	FALSE	
12 GoreTex is a natural fibre	<input type="checkbox"/>	<input type="checkbox"/>	[1]

	TRUE	FALSE	
13 BSI stands for British Safety Insurance	<input type="checkbox"/>	<input type="checkbox"/>	[1]

	TRUE	FALSE	
14 The country of origin is always on a garment label	<input type="checkbox"/>	<input type="checkbox"/>	[1]

	TRUE	FALSE	
15 Toxic pesticides cannot be used on organic cotton	<input type="checkbox"/>	<input type="checkbox"/>	[1]

Total [15]

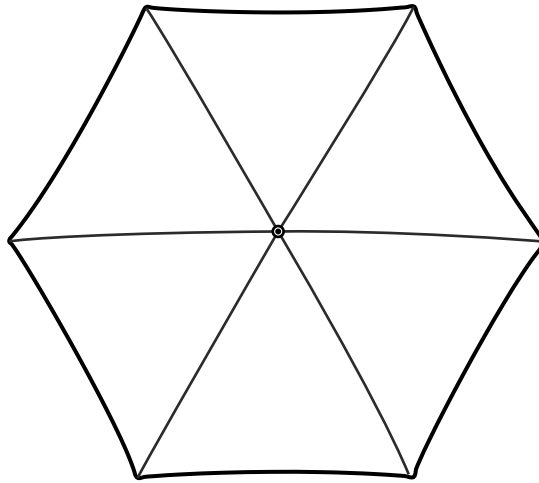
SECTION B

Answer ALL questions.

You are advised to spend 45 minutes on this section.

16 Fig.1 shows an umbrella.

Fig.1



(a) The umbrella has been made from recycled materials.

Give FOUR advantages of using recycled materials.

Advantage 1 _____

Advantage 2 _____

Advantage 3 _____

Advantage 4 _____

_____ [4]

(b) The fabric of the umbrella has a high percentage of polyester fibres.

Give TWO disadvantages to the environment of using polyester fibres.

Disadvantage 1 _____

Disadvantage 2 _____

_____ [2]

(c) The umbrella is to be packaged before being transported to the shops.

Identify FOUR reasons why the umbrella is to be packaged.

1 _____

2 _____

3 _____

4 _____

_____ **[4]**

(d) Some packaging used today is not environmentally friendly.

Give FOUR examples of non-environmentally friendly packaging.

1 _____

2 _____

3 _____

4 _____ **[4]**

(e) Name ONE national textile company that has an Eco-friendly policy for its products.

_____ [1]

Total [15]

17 Fig. 2 shows an unwanted old 100% cotton duvet cover.

Fig. 2



(a) Identify ONE different way for each of the 6Rs in which the cotton duvet cover can be used.

Recycle _____

Reuse _____

Reduce _____

Refuse _____

Rethink _____

Repair _____

_____ [6]

- (b) The duvet cover has a care label with the following logo as shown in Fig. 3.**

Fig. 3

Rectangle with a leaf shape within it to the left and a tear drop shape to the right. The teardrop has a small circle within it. Both shapes form a circle.

What is the name of the logo shown in Fig. 3?

_____ [1]

(c) Name and draw ONE other logo or symbol that could be found on the label for the 100% cotton duvet cover.

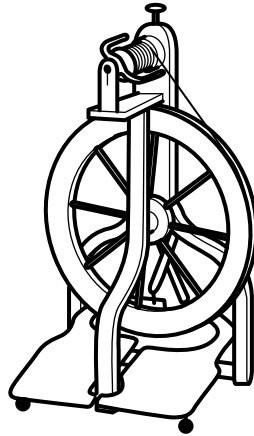
[2]

[6]

Total [15]

18 Fig. 4 shows a spinning wheel. The spinning wheel is used to produce hand spun natural yarns.

Fig. 4



(a) (i) Name ONE fibre that could be used to produce hand spun natural yarns.

_____ [1]

(ii) Give TWO environmental advantages of natural fibres.

1 _____

2 _____

_____ [2]

(b) Identify THREE benefits to the environment of hand spun fibres.

Benefit 1 _____

Benefit 2 _____

Benefit 3 _____

_____ **[3]**

(e) Explain ONE advantage to the consumer of technological advances and changing styles in materials.

[2]

Total [15]



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 and is freely available to download from our public website (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.