

Surname	Centre Number	Candidate Number
Other Names		2



GCE AS/A LEVEL – NEW

2602U10-1



**DESIGN AND TECHNOLOGY – AS unit 1
Fashion and Textiles**

MONDAY, 13 MAY 2019 – AFTERNOON

2 hours

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1.	8	
2.	8	
3.	8	
4.	8	
5.	8	
6.	40	
Total	80	

ADDITIONAL MATERIALS

A calculator, ruler, pencils and coloured pencils.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Answer **ALL** questions.

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

Write your answers in the spaces provided in this booklet. If you run out of space, use the continuation page at the back of the booklet, taking care to number the question(s) correctly.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question. You are advised to divide your time accordingly.

The total number of marks available is 80.

You are reminded of the need for good English and orderly, clear presentation in your answers. The quality of your written communication, including appropriate use of punctuation and grammar, will be assessed in your answer to question 5.

Answer all questions.

1. A product will go through many stages of the design process before it is ready for final production. The image below shows a prototype/toile of a jacket.



- (a) Define the term 'prototype/toile'. [1]

.....

.....

- (b) Describe the benefits of producing a prototype/toile to the designer. [3]

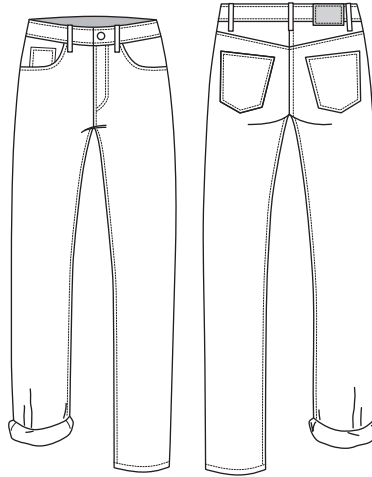
.....

.....

.....

.....

- (c) A manufacturing specification contains all the essential information needed for production. A working/flat drawing of the product, like the ones shown below, is a typical requirement.



Describe in detail **two** other essential pieces of information that are required in a manufacturing specification to ensure a successful outcome. [4]

.....

.....

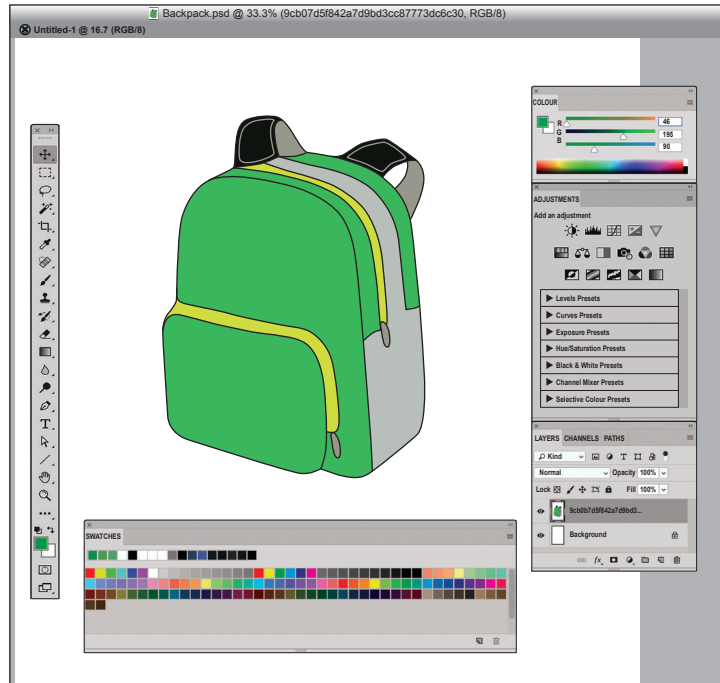
.....

.....

.....

.....

- 2. Designers will often use Computer Aided Design (CAD) when developing and presenting ideas as shown below.



Describe in detail the advantages and disadvantages that Computer Aided Design (CAD) has had on the fashion and textiles industry when presenting ideas. [8]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

3. Bamboo textile fibre is extracted from the bamboo plant which is shown below. It is now widely used in the fashion and textiles industry.



- (a) An important property of bamboo is absorbency. Using notes and a simple sketch, explain how the bamboo fibre is able to absorb moisture. [3]

.....

.....

.....

.....

.....

- (b) Discuss the advantages of using bamboo fibre. Give examples of its uses in your answer. [5]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

2602U101
05

4. Fibres are blended and mixed together to create new fabrics which have different properties. The socks shown below contain four different fibres.



Fibre content:

- 39% Viscose
- 35% Polyester
- 23% Nylon
- 3% Elastane

Analyse **each** of the fibres shown above in relation to the properties that are required for a pair of socks. [8]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

5. Julien Macdonald is a Welsh fashion designer.



Describe the work of Julien Macdonald including his style and any outside influences that have affected his style of design. Give examples from a variety of his fashion collections in your answer. [8]

Marks will be awarded for the content of the answer and the quality of written communication.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

6. Over the last 10 years there has been an increase in the popularity of wearable technology in sports clothing. Examples of wearable technology in sports clothing are shown below.



Heart rate monitor

Hidden heating elements



- (a) Evaluate the advantages and disadvantages of wearable technology in sports clothing to the consumer. [8]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

- (b) A sportswear company wants to include wearable technology in a new product range.

You have been asked to design a creative and original piece of sportswear for a young adult that includes wearable technology.

Draw your design in the space provided.

Marks will be awarded for:

- (i) presentation drawings of the front and back views of the piece of sportswear clothing; [4]
- (ii) the creativity and originality of your idea; [4]
- (iii) detailed notes and sketches that indicate how you have incorporated wearable technology into the design; [4]
- (iv) the quality of communication. [4]

- (c) Using notes and diagrams explain in detail how the construction of a knitted material makes it suitable for sportswear. [8]

Examiner
only

(d) The sports jacket shown below is made out of Gore-Tex.



Explain how Gore-Tex in terms of its characteristics and properties is suitable for the sports jacket above. [8]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

END OF PAPER

For continuation only.

Dotted lines for continuation of text.