Surname	Centre Number	Candidate Number
First name(s)		2

GCE AS/A LEVEL

S25-2602U10-1

2602U10-1

MONDAY, 12 MAY 2025 – AFTERNOON

DESIGN AND TECHNOLOGY – AS Unit 1
Fashion and Textiles

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**	

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01

ADDITIONAL MATERIALS

A calculator, ruler, pencils and coloured pencils.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

A pencil may be used to draw sketches or diagrams.

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 additional page(s) 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 **3**.

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Answer **all** questions.

1. The product below has become a popular item and is used as a wearable blanket.

(a) The wearable blanket is made from a knitted fleece fabric. Explain why fleece is a suitable fabric for this product. [4]

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(b) This fleece is made using a type of polyester called Polyethylene Terephthalate (PET). Explain the advantages to the environment of using PET for the wearable blanket. [4]

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2. The jumper shown below has been manufactured using thermochromic dye technology.

(a) Discuss the ways in which thermochromic dyes enhance the functional properties of textile products. [4]

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Trainers are often made with a memory foam footbed, as pictured below.

(b) Explain how a memory foam polymer functions and how this benefits the user of the trainers. [4]

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3. Issey Miyake was an influential Japanese fashion designer.

Evaluate the work of Issey Miyake and how his style and methods developed over time. [8]

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

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4. Wool fibre is used in packaging to keep medical supplies and perishable foods at a stable temperature when in transit.

(a) Explain how wool fibre is able to regulate temperature. [3]

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(b) Wool fibre is both hydrophobic (moisture resisting) and hydrophilic (moisture accepting). Use notes and sketches to show how the structure of wool fibre allows for both properties. [5]

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5. Advances in Computer Aided Manufacture (CAM) technology have given rise to alternative methods of manufacturing products.

Describe in detail the benefits and limitations of using CAM within the fashion and textiles industry. Refer to a range of examples in your answer. [8]

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6. A tent is an essential item when staying at a music festival.

(a) Nylon is a material often used to make the main body of a tent.
Explain how the properties of nylon make it a suitable material for a tent. [4]

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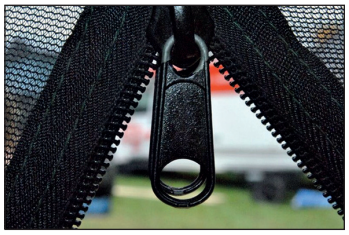
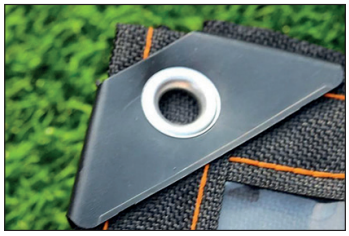
(b) Bought-in components such as zips, toggles and eyelets might also be used in a tent.





Explain the benefits of using bought-in components to the manufacturer. [4]

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(c) A flat fell seam, like the one shown below, is often used in the construction of tents.

(i) Using notes and sketches describe how you would construct and sew a flat fell seam. [4]

(ii) Explain why the flat fell seam is a suitable construction method for a tent. [2]

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(iii) Name a different construction method for a seam on a tent and give a reason why it is suitable. [2]

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(d) Many tents are left behind after festivals and the majority will end up in landfill. This is seen as a symbol of a throw-away culture.

Analyse the effect the throw-away culture, related to textile products, has on the environment. [8]

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(e) To reduce environmental impact, abandoned tents are being repurposed into a range of reusable fashion products.

Design a creative item of clothing or accessory that can be made from salvaged tents. The product should be suitable to use at a music festival and should reflect the festival theme.

Show all views and details of your design in the space provided.

Marks will be awarded for:

(i) a suitable design which reflects a festival theme [4]

(ii) the creativity and originality of your idea based on an unwanted tent [4]

(iii) knowledge and understanding of technical details of the design [4]

(iv) the quality of graphical communication and annotation. [4]

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Draw your design idea in the box below.

END OF PAPER

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Question number	Additional page, if required. Write the question number(s) in the left-hand margin.	Examiner only

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