

Surname	Centre Number	Candidate Number
First name(s)		2



GCE AS/A LEVEL

2602U10-1



MONDAY, 16 MAY 2022 – 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	

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.

You may use a pencil for graphs and diagrams only.

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 designer will analyse existing products as part of the iterative design process. A disassembly/reverse engineering task is one of the ways in which a product can be analysed.



- (a) Define the term 'reverse engineering/disassembly'. [1]

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- (b) Describe the benefits of reverse engineering/disassembly to the designer. [3]

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- (c) Reverse engineering/disassembly is a research task. Describe in detail **two other** forms of research which the designer may carry out. [4]

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2. A design specification will include measurable performance criteria to ensure a successful product.

(a) Explain what is meant by the term 'measurable performance criteria'. [2]

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(b) Give **one** example of measurable performance criteria that would be included in a specification for the following products and fully justify the importance of **each** example.

(i) A firefighter's uniform. [3]

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(ii) A rucksack for a camping expedition. [3]

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3. Linen textile fibre is extracted from the stem of the flax plant which is shown below.



(a) An important property of linen is absorbency. Use a simple annotated sketch to explain how the linen fibre is able to absorb moisture. [3]

(b) Discuss how the other properties of linen make it suitable for a wide range of products. Give examples in your answer. [5]

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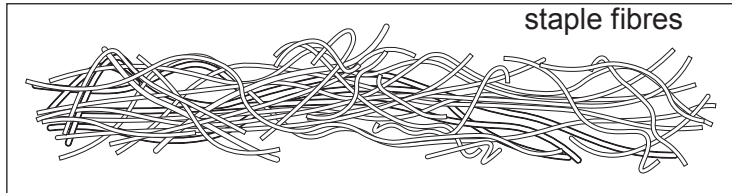
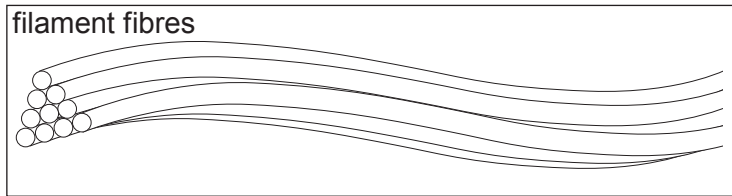
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4. Textile fabrics reflect the characteristics of the fibres and the yarns they are spun into.



Discuss the use of staple and filament fibres/yarns when used in fabrics:

(i) Staple fibres/yarns

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(ii) Filament fibres/yarns

[4]

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- 5. The iterative design and make process is essential when developing new products. Describe the iterative processes a designer might make when developing a new fashion product. [8]

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

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6. The Chanel suit shown below, is considered an iconic design. The style of the suit has changed over time to meet the needs, wants and values of consumers.



- (a) Analyse how and why iconic designs in fashion have developed over time. [8]

Include examples in your answer.

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- (b) Study the mood board below and use it as inspiration to design a creative and original 2-piece matching suit for a fashionable young adult.



Sketch the front and back views of your design in the space provided on the page opposite.

Specification

Your design must:

- be suitable for a fashionable young adult
- be inspired by the mood board
- be creative and original
- be a 2-piece matching suit.

Marks will be awarded for:

- (i) a presentation drawing of the front and back views of the 2-piece matching suit; [4]
- (ii) the creativity and originality of your idea based on the mood board; [4]
- (iii) detailed notes and sketches that show style details; [4]
- (iv) the quality of communication. [4]

(c) The Chanel suit is traditionally made from wool tweed.

(i) Explain why wool tweed in terms of its properties, is a suitable fabric for the Chanel suit. [4]

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(ii) Tweed can be woven with a plain or twill weave. Explain how the named weaves determine the design and characteristics of the fabric. [4]

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(d) The lining of the tweed jacket is made from viscose. Evaluate why the tweed jacket needs a lining and the suitability of viscose as the lining material.

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END OF PAPER

