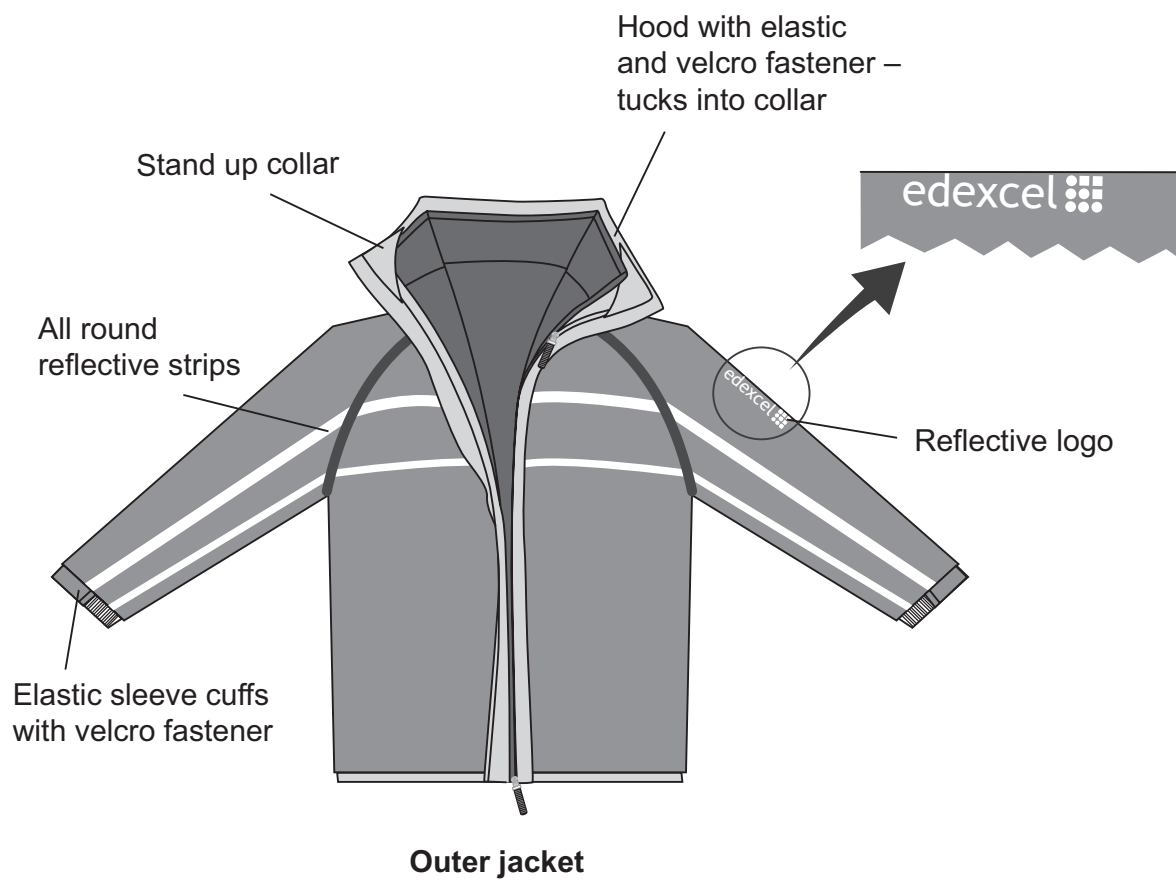


Answer ALL the questions. Write your answers in the spaces provided.

1. The drawing below shows an all weather jacket. This consists of a coated polyester outer jacket and a Polartec fleece inner jacket.



Inner fleece jacket
Zipped into outer jacket



Leave
blank

(a) Two specification points for the all weather jacket are that it must:

- protect the wearer from wind and rain
- be seen in the dark.

Under each of the following headings, give **one** more point that should be included in the specification for the all weather jacket.

For each point, give **one** reason why it should be included.

(i) The needs of the user.

Point

Reason

.....

.....

(2)

(ii) Environmental considerations.

Point

Reason

.....

.....

(2)

(iii) Quality.

Point

Reason

.....

.....

(2)



(b) The inner fleece jacket is made from Polartec.

One reason for using Polartec to make the inner fleece jacket is that it is made from recycled plastic bottles.

Give **two** other reasons why Polartec is a suitable material from which to make the inner fleece jacket.

1

2 (2)

(c) The seams on the outer jacket are bonded.

Give **two** reasons why bonding is a suitable joining method for the seams of the outer jacket.

1

2 (2)

(d) The outer jacket is made from polyester with a weatherproof coating.

Give **two** properties of polyester with a weatherproof coating that make it a suitable material for the outer jacket.

For each property give **one** reason why it makes it suitable.

Property 1

Reason

.....

Property 2

Reason

..... (4)

(e) Quality control checks are carried out at important stages during the manufacture of the all weather jacket.

Name **two** important quality control checks that should be made during the manufacture of the all weather jacket.

1

2 (2)



Leave
blank

(f) The design of the jacket logo is made in batches using a CNC machine.

Describe **one** way in which a CNC machine is suitable for batch production of the logo.

.....
.....

(2)

(g) Two specification points for the all weather jacket are that it must:

- protect the wearer from wind and rain
- be seen in the dark.

Explain under the following headings, how the all weather jacket achieves these purposes.

(i) Protect the wearer from wind and rain.

.....
.....
.....
.....

(2)

(ii) Be seen in the dark.

.....
.....
.....
.....

(2)

(Total 22 marks)

Q1

--	--



2. (a) Non-woven fabrics are produced from fibres without being made into yarns.

Give **two** examples of non-woven fabrics.

1

2

(2)

(b) Finishing processes can be carried out using chemical methods.

Name **two** chemical finishing processes.

1

2

(2)

(c) Tie-dye is a form of resist dyeing used to enhance the appearance of fabric.

Complete the flowchart below to show the **four** other main stages of tie-dyeing when carried out in the classroom. The second stage has been done for you.



Place the fabric in the dye and leave for the recommended time.



(4)



Leave
blank

(d) Careful lay planning reduces fabric waste.

Give **three** points to consider when working out a lay plan for a fabric with a large pattern.

1

2

3

(3)

(e) High volume production is used to manufacture large quantities of identical garments.

Give **two** features of a high volume production line.

1

2

(2)

(f) ICT is used to speed up the communication of data.

Give **three** ways ICT can speed up data communication at the point of sale.

1

2

3

(3)



Leave
blank

(g) CAD and CAM are used in manufacturing to speed up the production process.

Explain **one** reason, other than speed, for using the following in textiles production.

(i) CAD for the production of fabric designs.

.....
.....
.....

(2)

(ii) CAM for computerised sewing processes.

.....
.....
.....

(2)

(h) Quality control systems are used to help ensure that products are manufactured to specified standards.

Explain **one** way a quality control system can help to ensure a product meets the specified standards.

.....
.....
.....

(2)

Q2

(Total 22 marks)



BLANK PAGE



Leave
blank

3. A business needs a new corporate uniform for its staff.

The specification for the uniform is that it must:

- be smart and identify the staff working for the business
- be comfortable and easy to care for
- be suitable for hot and cold weather conditions
- be easily suitable for batch production.

(a) In the spaces opposite, use sketches and, where necessary, brief notes to show **two different** design ideas for the uniform that meet this specification.

Do **not** evaluate your designs in part (a).

Candidates are reminded that if pencil is used for diagrams/sketches, it must be dark (HB or B). Coloured pens, pencils and highlighter pens must **not** be used.

PLEASE DO NOT WRITE OR DRAW IN THIS SPACE.

PLEASE USE THE SPACES OPPOSITE FOR YOUR DESIGNS.



Leave blank

(b) Three of the original specification points are repeated below.

Evaluate how **one** of your design ideas succeeds or fails to meet each of these specification points.

Write down the number of your chosen design idea (1 or 2) here:

(i) The uniform must be smart and identify the staff working for the business.

.....
.....
.....

(2)

(ii) The uniform must be comfortable and easy to care for.

.....
.....
.....

(2)

(iii) The uniform must be suitable for hot and cold weather conditions.

.....
.....
.....

(2)

Q3

(Total 22 marks)



BLANK PAGE



4. (a) Silk is a natural filament fibre.

Give **two** characteristics of filament fibres.

1

2

(2)

(b) Wool is a natural fibre.

Describe the structure of wool fibres.

.....

.....

(2)

(c) Acrylic fibres are manufactured fibres.

Give **three** properties of acrylic fibres.

1

2

3

(3)

(d) Knitted products are made by either warp or weft knitting.

One difference between the two is that warp knitting will not ladder but weft knitting will ladder.

Describe **two** other features of warp and weft knitting to show their differences.

1

.....

.....

2

.....

.....

(4)



Leave
blank

(e) Consumers expect their products to be reliable and to have care labels attached.

(i) Give **two** advantages to the consumer of attaching a care label to a garment.

1

2

(2)

(ii) State **one** course of action a consumer can take if a product does not perform in the way in which the manufacturer states on the care label.

.....

(1)

(f) To keep up with the demand for constant changes in fashion, many garments on sale in big chain stores have been manufactured in the Far East.

Describe **two** moral issues this poses to the consumer.

1

.....

.....

2

.....

.....

(4)



(g) The production of manufactured fibres can have a negative effect on the environment.

Describe **two** ways in which the production of manufactured fibres can have a negative effect on the environment.

1

.....

.....

2

.....

.....

(4)

Q4

(Total 22 marks)

TOTAL FOR PAPER: 88 MARKS

END

