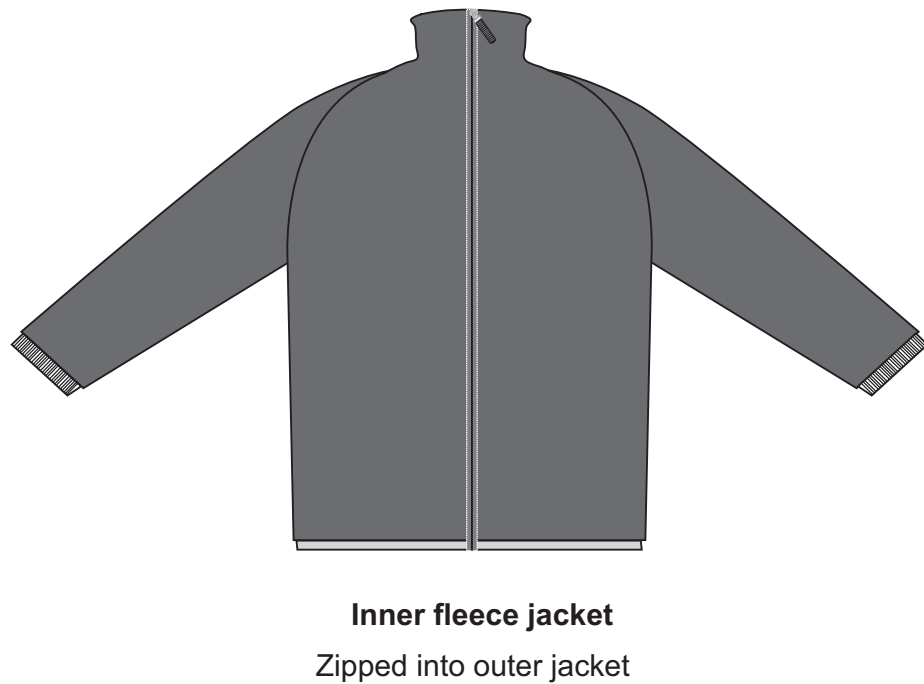


Answer ALL the questions. Write your answers in the spaces provided.

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



(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)



(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)



(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)

Q2

(Total 11 marks)

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3. (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)

Q3

(Total 11 marks)

TOTAL FOR PAPER: 44 MARKS

END

