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

1. (a) State **one** end use for each of the following materials:

(i) Lyocell

(ii) Nomex

(iii) Kevlar

(3)

(b) The use of electronic communication is now more widespread.

(i) Explain **two** benefits that video conferencing could bring to a textile company.

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(4)



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(ii) Virtual reality has become an accepted part of the design process.

Outline **three** ways in which textile designers could use virtual modelling to develop their designs.

1

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3

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(3)

Q1

(Total 10 marks)

3

Turn over



2. (a) Internet marketing has become increasingly popular.

(i) Explain **two** ways in which internet marketing has benefited the consumer.

1

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(4)

(ii) Explain **one** way in which internet marketing can cause a problem for the consumer.

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(2)

(b) The BSI (British Standards Institution) is an independent organisation which works with textile manufacturers.

Outline **two** ways in which working with the BSI benefits textile manufacturers.

1

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2

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(2)



(c) The Advertising Standards Agency (ASA) regulates advertising in newspapers and magazines.

Explain **two** ways in which the ASA regulates advertisements.

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(4)

(Total 12 marks)

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Q2

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3. (a) Automation is useful in certain areas of the textile industry.

Explain **two** ways in which automation can be used in **one** of the following:

- materials production
- materials handling

Choice of answer

1

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(4)



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(b) Just in time (JIT) is a production management system.

Explain **two** advantages of using JIT in a clothing manufacturing situation.

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(4)

Q3

(Total 8 marks)



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4. (a) Decorative techniques need careful preparation before successful production.

Outline **five** preparation stages for **one** of the following decorative techniques:

- machine embroidery
- appliqué

Chosen decorative technique

1

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2

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3

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4

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5

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(5)



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(b) Explain the following textile terms:

(i) Reflective textiles

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(2)

(ii) Biostoning

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(2)

(Total 9 marks)

Q4



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5. (a) Most technical textiles are made out of everyday fibres, such as polyester, polyamide and viscose.

Explain how these fibres have been developed so they are suitable for tough working conditions.

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(2)

- (b) Three dimensional fabrics are now being manufactured.

Explain **two** benefits of this method of production to the manufacturer.

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(4)



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(c) (i) Explain **one** advantage to the manufacturer of recycling textiles.

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(2)

(ii) Explain **one** disadvantage to the manufacturer of recycling textiles.

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(2)

(Total 10 marks)

Q5

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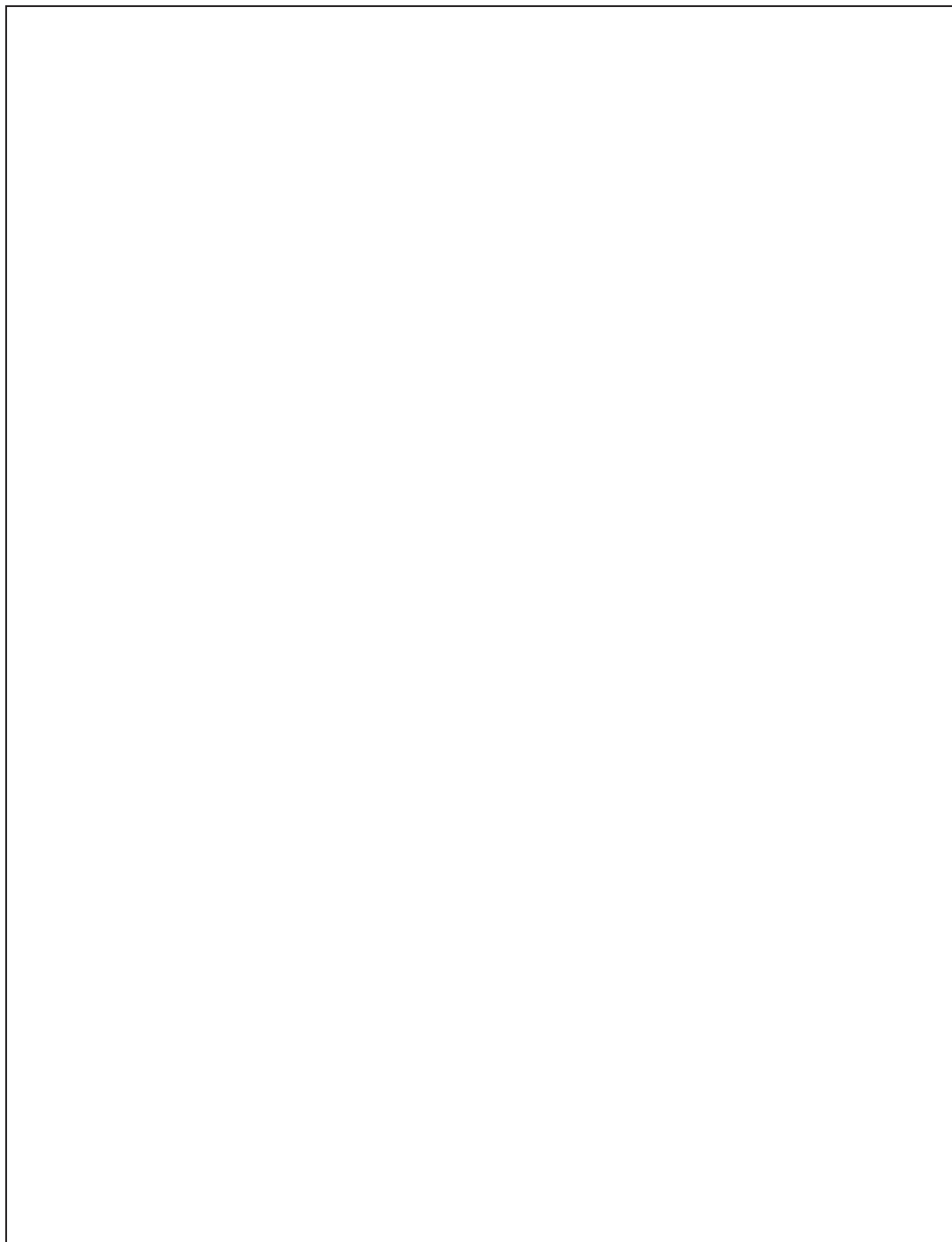
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6. Parents are concerned for the safety of their children whilst on their way to and from school.

(a) A basic vest is needed that incorporates safety features and uses suitable modern materials.

In the space below, produce an annotated design of a vest.

Your design must include **two** modern materials and suitable safety features. You must show a front and back view.



(3)



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(b) Justify the use of the modern materials which you have used.

Material 1

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Material 2

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(2)

(c) Outline **three** ways in which the cost of manufacturing the completed vest could be reduced when it is batch produced.

1

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2

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3

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(3)

(d) Explain **two** environmental implications for the life cycle of this product.

1

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2

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(4)

(Total 12 marks)

Q6



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8. (a) The argument against using non-renewable resources has implications for the textile industry.

Explain **three** ways in which the textile industry could use raw materials in a more environmentally friendly way.

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(6)



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