Design & Technology
A-Level

Textiles

Materials required for questions

- Pencil
- Rubber
- Calculator

Instructions

- Use black ink or ball-point pen
- Try answer all questions
- Use the space provided to answer questions
- Calculators can be used if necessary
- For the multiple choice questions, circle your answer

Advice

- Marks for each question are in brackets
- Read each question fully
- Try to answer every question
- Don't spend too much time on one question

Good luck!

Q1. Which of the following is not a natural fibre?

    A   Cotton

    B   Silk

    C   Nylon

Q2. Why do we blend fabrics?

    A   To improve properties

    B   To make aesthetic patterns

    C   To improve texture

Q3. What is the main disadvantage of silk?

    A   It has poor insulation properties

    B   Its expensive

    C   It weakens when wet

Q4. What are polyester fibres used to make?

    A   Seatbelts

    B   Ball gowns

    C   Lycra

Q5. Why is elastane (lycra) used in sportwear?

A   Drapes well

B   Good solvent resistance

C   Its elastic

Q6. What is polycotton used to make?

A   Shirts

B   Car tyres

C   Sportswear

Q7. What is not a synthetic fibre?

A   Polyester

B   Silk

C   Elastane

Q8. What sort of degradation usually effects synthetic fibres?

A   Heat radiation

B   Infrared radiation

C   UV radiation

Q9. The figure shows a dress

The dress is made from nylon.

Explain **one** working property of nylon that makes it suitable for the dress. **(3 marks)**

_____

_____

_____

Q10. State **two** properties of natural fibres that make them suitable for clothing **(2 marks)**

_____

_____

_____

_____

Q11. Describe **two** features that make the figure suitable for mass production. **(4 marks)**

Cotton
T - Shirt

Answers

Q1. C
Q2. A
Q3. B
Q4. A
Q5. C
Q6. A
Q7. B
Q8. C

Q9.

- Nylon is a durable fibre (1), which means it will withstand physical use without easily ripping (1), therefore it is good value for money as it will show less wear and tear/abrasion (1).
- • Nylon is non-absorbent/water resistant (1), which means it will not hold water and add to the weight of the dress/will dry quickly when washed (1), therefore making it easier to care for when laundering (1).

Q10.

- Thermal properties
- absorbency for dyeing
- soft handle
- good drape
- can be washed and ironed

Q11.

- Cotton is a natural material that is readily available in large quantities.
- Products can be nested together on large sheets of cotton to minimise waste.
- Automated machines can cut patterns in material to ensure repeatability and consistency.
- Several layers of cotton can be cut at the same time.
- Simple design ensures costs are kept to a minimum.
- Screen printing allows T shirts to be printed on and then the same design to be