

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. Whi	ich of the following is not a natural fibre?				
Α	Cotton				
В	Silk				
С	Nylon				
Q2. Wh	y do we blend fabrics?				
Α	To improve properties				
В	To make aesthetic patterns				
С	To improve texture				
Q3. Wha	at is the main disadvantage of silk?				
Α	It has poor insulation properties				
В	Its expensive				
С	It weakens when wet				
Q4. Wha	at are polyester fibres used to make?				
Α	Seatbelts				
В	Ball gowns				
С	Lycra				

Q5. Why is elastane (lycra) used in sportwear?				
Α	Drapes well			
В	Good solvent resistance			
С	Its elastic			
Q6. What is polycotton used to make?				
Α	Shirts			
В	Car tyres			
С	Sportswear			
Q7. What is not a synthetic fibre?				
Α	Polyester			
В	Silk			
С	Elastane			
Q8. What sort of degradation usually effects synthetic fibres?				
Α	Heat radiation			
В	Infrared radiation			
С	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

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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