**Design & Technology**

**Textiles**

**Materials required for questions**

* Pencil
* Rubber
* Calculator

**Instructions**

* Use black ink or ball-point pen
* Try to 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
* 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** It’s 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.** A 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 a cotton T-shirt suitable for mass production **(4 marks)**

1.

2.

**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 (1)
* Absorbency for dyeing (1)
* Soft handle (1)
* Good drape (1)
* Can be washed and ironed (1)

**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