

Textiles and Design

Section II (continued)

Marks

Question 13 — Properties and Performance of Textiles (10 marks)

- (a) (i) Identify a recent innovation in decorative techniques used in the production of textiles. 1

Machine Embroidery

- (ii) Discuss the impact of this innovation for each of the following: 4

Consumer *Machine embroidery benefits the consumer by allowing them to choose from a wide variety of designs & colours quickly & efficiently on screen. The actual production is much quicker so the consumer receives their top-quality goods sooner.*

Manufacturer *Manufacturers benefit greatly as machine embroidery designs can be scanned in & produced quickly & with better quality. It reduces the number of skilled workers needed to perform the hundreds of hours taken using hand embroidery, therefore productivity & creativity is boosted.*

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Question 13 (continued)

- (b) (i) Name a recent innovation in fibre, yarn or fabric that enhances fabric performance. 1

Manufactured regenerated cellulose Lyocell

- (ii) Describe the innovation named and explain how it enhances the performance of a fabric. 4

Lyocell is an innovative new fibre made directly from cellulose found in wood pulp trees. It makes the fabric Tencel which has many favourable properties including:

- biodegradable/recyclable*
- soft smooth handle*
- good strength*
- easy care*

Tencel is used especially in jeans & perhaps the only disadvantage is its high cost. ~~the~~

Lyocell is a new fibre that allows designers to work with to find other ways of enhancing performance in a textile.

End of Question 13