

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
	..computer embroidery.....	
	(ii) Discuss the impact of this innovation for each of the following:	4
	Consumer ..cheaper embroidered textiles..... ..because of lower labour costs and increased..... ..productivity, less individual and intricate..... ..embroidery because of mass production,..... ..and use of machines.....	
	Manufacturerincreased productivity because..... ..it is much faster than manual embroidery..... ..consistent quality because it's all done by..... ..machine, reduction in staff levels because..... ..it is done by machine, and reduction in..... ..labour costs and increase in machinery costs.	

Question 13 continues on page 10

Question 13 (continued)

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

Proban.....

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

Proban is a fire retardant finish applied to cotton. It is a chemical solution of nitrogen and phosphate. When applied to cotton, the properties associated with the cotton are kept, the finish is light-weight and ^{gives} ~~has~~ the appearance of denim. The proban finish means when the fabric comes into contact with fire it forms a carbon mass which insulates the wearer and reduces the ignition temperature. Proban treated fabric ~~is~~ provides safety in case of a fire and is therefore used for fire fighters clothing and race car drivers clothing as well as furnishings in hotels and **End of Question 13** other public places.