

# Textiles and Design

## Section II (continued)

Marks

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

- (a) Explain how a finishing technique can be used to enhance fabric performance for a specific end-use. 2

..... finishing techniques ensure  
..... fabric durable for the consumer.  
.....  
.....  
.....

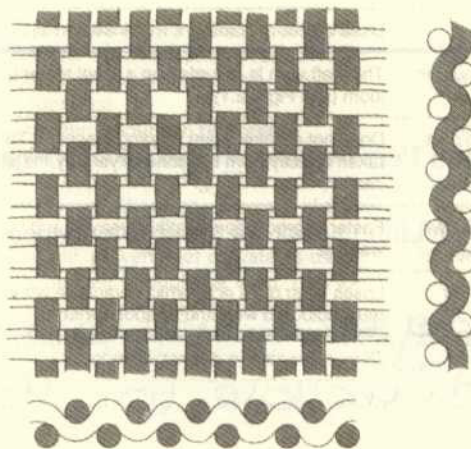
- (b) Explain the impact ONE technological advance in machinery has had on the production of textiles. 2

..... The use of mass production  
..... machines has enabled us to  
..... create more products at a  
..... lesser expense.  
.....  
.....

Question 13 continues on page 10

## Question 13 (continued)

- (c) Identify the fabric structure in the diagram. Explain why it is an appropriate structure for a cotton hat. 2



the fabric is a weave. It is suitable as it will allow air to pass through the ~~weave~~ fabric in the hat, which is cotton for this same reason.

- (d) (i) Identify a specific end-use that requires excellent abrasion resistance in a fabric. 1

toddlers and children's clothing.

- (ii) Describe how the fabric structure, yarn structure and fibre content optimise abrasion resistance. 3

the fabric structure should be of high durability, which depends on the yarn structure and fibre content. The fibre content should be high so that the yarn structure can be strong and in turn create stronger fabric structure which will optimise abrasion resistance.

End of Question 13