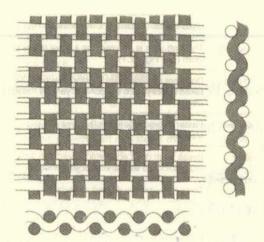
## Textiles and Design

Section II (continued)

Marks	3
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.  Scotch quarching a fabrice enhance's the fabric performance of farmers pants for examination to replie dirt in a dirty environment making the fabric last long with good where and easy to wash. Making the fabric	iple)
specific to repetit dirt in its end use.  (b) Explain the impact ONE technological advance in machinery has had on the production of textiles.  Computerised machines that transfer pattern layouts on to material and then apple able to cut out 50-100 layors of material. This reduces wastage increase the production and effectiveness in the textile product.	

Question 13 continues on page 10

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



Plain weave It interlaces with each other, is durable and fletible.
This is appropriate for a cotton hat as it stops light but structure allows air flow. Strong structure therefor durable and comfortable as it allows some movement (#

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

An entant that crauls; the pants.

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

Fibre would have to be filament long and strong. Fibres being spun into a yearn would need a z-fwist for maximum strength. Fabric structure in a turll weave as its the strongest weave All of these ex quality's in a

material would optimise it into

being a good abrasion resistance material.

**End of Question 13**