

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

~~Sportswear~~ hydrophobic fibres can be used in garments to protect it from absorbing water and other liquids. This provides consumers with the assurance that the product will be protective against liquids.

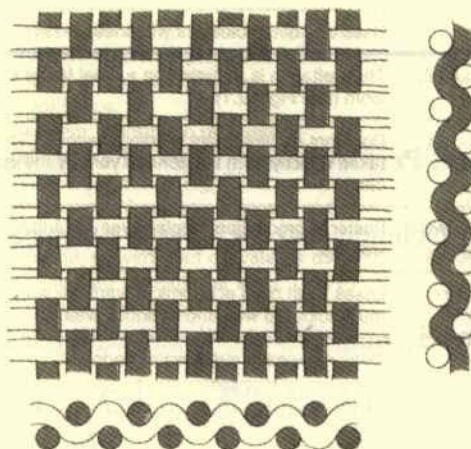
- (b) Explain the impact ONE technological advance in machinery has had on the production of textiles. 2

The CAD system has enabled manufactures to save time and money on the production of ~~gar~~ garments. It's ~~also~~ It can be used to send ^{and receive} ideas and designs overseas, and can correct errors before production begins, thus saving time and money.

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Question 13 (continued)

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



This structure has a warp and weft technique that has two different fibres. These fibres help assist each other with absorbing sweat and releasing it from the inside of the hat to the outside, thus being evaporated off the garment. It's tight stitching enables no sun to approach the surface skin therefore there is a ^{sun} heat protection.

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

Nylon is a has abrasion resistance to when exposed to harsh surfaces.

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

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End of Question 13