

Textiles and Design

Section II (continued)

Marks

Question 12 — Design (10 marks)

- (a) Distinguish between functional and aesthetic design. 2

functional design must be appropriate for the function of the textiles. It should have sound construction and the use of appropriate materials and techniques. Aesthetic designs are to make the textile design pleasing to the eye through use of colours and decorative techniques. They should enhance the function of the design.

- (b) (i) Identify ONE of the principles used in textile dyeing. 1

The use of salts to assist dye penetration ^{good}

- (ii) Describe and evaluate how an experiment you have conducted demonstrated this textile dyeing principle. 3

To fabric swatches of the same size ^(cotton fibre) and of same fibre composition (that is white) was placed in two different dye baths that consisted of the same amount of ~~water~~ ^{the same colour} water and dye. However, in one of the dye baths, an appropriate amount of salt was added ~~while~~ before the textile was immersed in the bath while the other dye bath was left alone. After being in the dye bath untouched for 30 mins, the textiles was washed and dried and ~~any~~ ^{any} colour variations were observed. The fabric swatch which was placed in the dye bath that had the salt had a brighter and richer shade of the same colour compared to the other fabric swatch, ~~the~~ illustrating how salt assists in the migration of dye molecules when dyeing cotton.

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Question 12 (continued)

- (c) Identify and describe a process of applying colour to textiles used by a culture of your choice. 4

Culture Japan
 Process Silk ^{hand} printing ^{or painting} is a predominant decorative technique in textile arts and traditional clothes. In silk painting, fabrics paints are utilised to create individual, exclusive designs, by the use of a paint brush. This technique is used alot in textile art. In silk printing, the technique of screen printing is used. Stencil templates are made and placed on the fabric. A fine mesh screen is placed on top of the screen and printing paste is placed on the edge/end of the screen. Using a squeegee the printing paste is applied across the stencil template, printing the design. Individual screens need to be made for each colour used, and is a time consuming and costly process of applying colour. Silk printing is used in the decoration of Kimonos, to produce

End of Question 12 multi-coloured, decorative classical beauty and nature images. eg. wave patterns, tortoise shell grid patterns etc.