

Textiles and Design

Section II (continued)

Marks

Question 12 — Design (10 marks)

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

Aesthetic design is the overall look and attraction of a textile product such as its colour, decoration such as embroidery or lace. Functional design is the textile products performance to suit its purpose. This includes things like zippers, dart, fibre/fabric suitability, seams, safety.

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

immersion of fibre, yarn, fabric in dye bath - ~~natural dye~~ ^{natural dye}
- mordants - salt, vinegar, ~~some~~ alompon salts.

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

The dyeing of carded wool with ~~direct~~ ^{skins of onions -}
natural dye. The wool was immersed in a dyebath, ~~with~~ the water (dyebath) was boiled over a set period of time to allow the dye to migrate and locate onto the fibre. This was undertaken using different mordants to see how they help 'fix' in the colour to the fibre and if it improves colour fast. The results showed that mordants affect the colour of the dye - some increase vibrancy, however, ultimately

Question 12 continues on page 8 ^{they also have}
a fibre type suitability.

Question 12 (continued)

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

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Culture Japanese - kimono.

Process The Japanese apply colour to their textile through various processes including dyeing, printing, embroidery and hand painting. Printing and dyeing are two significant processes. The Japanese are known for the screen printing which involves the use of a framed screen with a stencil and a paste of colour which is run over the stencil. The Japanese also do resist dyeing/printing. Where certain areas are subjected to wax, the fabric is dyed/printing, then those areas are subjected to wax, then the fabric is dyed/printed and so on. Usually the result is a continuous scene on the kimono.

End of Question 12