

UNIVERSITY OF ESWATINI FINAL EXAMINATION PAPER

PROGRAMME

BACHELOR OF SCIENCE IN TEXTILES, APPAREL

DESIGN AND MANAGEMENT YEAR III

COURSE CODE :

TAD405

TITLE OF PAPER:

TEXTILE DYEING AND PRINTNG

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS :

ANSWER QUESTION ONE (1)

AND ANY OTHER TWO (2) QUESTIONS

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QUESTION 1 (COMPULSORY)

a) Describe three (3) types of symmetry that can be used in Textile Design. (9 Marks)

b) Name and describe the printing method used on the cushion covers below. (6 Marks)



c) State three (3) advantages of the printing method in (b) above. (3 Marks)

d) Describe five (5) faults that can be found on printed fabrics. (10 Marks)

e) You have been tasked with teaching tie-dye technique to a group of 10 year olds. They have requested that you teach them how they can come up with a colourful design having horizontal stripes. Outline the processes that you will teach them in order to come up with the desired design.

(12 Marks)

[TOTAL MARKS = 40]

QUESTION 2

a) Give five (5) advantages and five (5) disadvantages of dyeing with natural dyes. (10 Marks)

b) i) List two (2) objectives of scouring. (2 Marks)

- ii) Outline the scouring process you would use in the pre-treatment of cotton during your practical classes. Include all the chemicals to be added in your scouring liquor.(12 Marks)
- c) Dyeing can be carried out using any one of three processes:
 - i) Name three (3) dyeing processes that can be used in the dyeing of materials. (3 Marks)
 - ii) Give three (3) factors that influence the choice of the dyeing process. (3 Marks)

[TOTAL MARKS = 30]

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QUESTION 3

a) Differentiate between dyeing and printing.

(10 Marks)

- b) Explain two (2) methods in which mordants can be applied when dyeing with natural dyes.

 (6 Marks)
- c) Give four (4) principal properties that all dyes must possess.

(4 Marks)

d) Describe all the different stages carried out when dyeing with vat dyes.

(10 Marks)

[TOTAL MARKS =30]

QUESTION 4

- a) Give a detailed description of bleaching cotton fabrics using hydrogen peroxide as a bleaching agent. (15 Marks)
- b) Describe the following printing techniques:

(10 Marks)

- i) Direct printing
- ii) Resist printing
- c) Explain the function of thickening agents in printing. Name two (2) commonly used thickening agents in printing. (3+2=5 Marks)

[TOTAL MARKS = 30]