

2nd SEM. 2010/2011



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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME : BACHELOR OF SCIENCE IN TEXTILE,
APPAREL AND DESIGN MANAGEMENT
YEAR IV**

COURSE CODE : TADM 307

TITLE OF PAPER : COLOURATION TECHNOLOGY

TIME ALLOWED : TWO (2) HOURS

**INSTRUCTIONS : ANSWER QUESTION ONE (1)
AND ANY OTHER TWO (2) QUESTIONS**

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN
GRANTED BY THE CHIEF INVIGILATOR**

QUESTION 1 (Compulsory)

- a) Natural dyes were used to create various colours before the introduction of synthetic dyes in mid-19th Century. Give any five mordant and five natural sources which can be used for dyeing textiles and the colours produced by these natural sources.

(10 Marks)

- b) You have received an order to make a set of table mats and napkins for a dining table in three colours (base + two colours) using batik.
- i) Create interesting designs for table mats and napkins. (8 Marks)
 - ii) What fabric and dyes will you use? (4 Marks)
 - iii) Explain the steps of working for design. (8 Marks)
 - iv) Give the recipe for preparing dye bath and dyeing, which you will be using. (4 Marks)
- c) Explain the process of flock printing on textiles. (6 Marks)

[Total Marks = 40]**QUESTION 2**

- a) It is important to prepare the cotton fabric before dyeing or printing. Why? (2 Marks)
- b) Describe briefly four (4) pre-treatment methods. (4x7= 28)

[Total Marks = 30]**QUESTION 3**

Yarns can be dyed in various forms using various dyeing machines. Explain the mechanism of yarn dyeing machines (one for each form), their advantages and disadvantages for dyeing yarns in the form of hank, cheese and warp

(10x3 = 30 Marks)

[Total Marks = 30]**QUESTION 4**

- a) What is screen printing? (3 Marks)
- b) Explain various process of developing screens for flatbed screen printing. (12 Marks)
- c) Describe the process of printing textiles with flat screens. (15 Marks)

[Total Marks = 30]

QUESTION 4

- (a) Describe **two (2)** ways in which finished garments can be stored/packaged in readiness for dispatching to the client/buyers.
 $5 \times 2 = (10)$
- (b) Apparel production commences with the design ideas then proceeds to the actual production of the design. State **two (2)** responsibilities of **two (2)** personnel required in the designing and **four (4)** in the production sections.
 $2 \times 3 + 4 \times 3 = (18)$
- (c) Define the following: dumping and transshipment. (2)

[Total Marks = 30]