

**2<sup>nd</sup> SEM. 2010/2011**



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**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION PAPER**

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

**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) Define or explain what are dyes and pigments . (6 Marks)
- b) Describe any four classes of dyes used for various textiles. (5x4=20 Marks)
- c) Explain with illustration, any two tying techniques you used for resist dyeing in laboratory. (6 Marks)
- d) Describe the dye recipe used to dye the tied samples. (8 Marks)

[Total=40 Marks]

**QUESTION 2**

Explain the mechanism of fabric dyeing with illustrations, advantages and disadvantages of following machines:

- i). Loose fibre dyeing machine
- ii). Roller hank dyeing machine

(15x2= 30 Marks)

[Total=30 Marks]

**QUESTION 3**

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

[Total=30 Marks]

**QUESTION 4**

Describe the following:

- i. Batik technique of printing
- ii. Winch dyeing machine
- iii. Digital printing

(10x3=30 Marks)

[Total=30 Marks]