

1ST SEM. 2009/2010



PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

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

COURSE CODE : TADM 405

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

- a) The textiles are coloured using colorant. Explain any five (5) colorants are used for textiles.

(5x2=10 Marks)

- b) Colours may be applied to textiles at various stages. Describe each stage of dyeing textiles; include advantages and disadvantages of dyeing at each stage.

(30 Marks)

[10+30=40 Marks]

QUESTION 2

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

- i). Jigger dyeing machine
- ii). Winch dyeing machine.

(2x15=Marks 30)

QUESTION 3

- a) Various printing processes are used for textiles. Explain three (3) processes and give examples for each of these processes.

(3x6= Marks)

- b) Describe any four (4) methods of resist printing.

(4x3 Marks)

[18+12=30 Marks]

QUESTION 4

Explicate any three of the following methods of printing:

- i.) Digital printing
- ii.) Heat transfer printing
- iii.) Electrostatic printing
- iv.) Foil printing

(3x10=30 Marks)