

1<sup>ST</sup> SEM, 2009/2010

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#### UNIVERSITY OF SWAZILAND

# FINAL EXAMINATION PAPER

**PROGRAMME** 

BACHELOR OF SCIENCE IN HOME ECONOMICS, HOME ECONOMICS EDUCATION AND TEXTILE APPAREL DESIGN

MANAGEMENT YEAR IV

**COURSE CODE** 

**TADM 404** 

TITLE OF PAPER

ADVANCED TEXTILE SCIENCE

TIME ALLOWED

TWO (2) HOURS

INSTRUCTION

ANSWER QUESTIONS ONE (1) AND

**ANY OTHER TWO (2) QUESTIONS** 

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

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#### ADVANCED TEXTILE SCIENCE

### **QUESTION 1**

a)	Name and discuss four (4) laws and regulations that	that deal with "truths-in-
	fabrics.	$4 \times 3 = 12$

b) List and discuss five (5) 'Smart' garments for the future and their advantages to consumers or environment. Tabulate your answer in this way:

Smart Garment	Discussion	Advantages
i)		1
ii)		$5 \times 4 = 20$
	ł	

c) Name and discuss four (4) topics in Dress and Technology that bring ethical issues.  $4 \times 2 = 8$ 

**[TOTAL POINTS 40]** 

#### **QUESTION 2**

- a) List and discuss four (4) environmental laws and regulations that were passed to guide textile industries in keeping the environment clean.  $4 \times 3 = 12$
- b) Name and discuss five (5) "Green Fibres" or "Eco-Friendly Fibres" and their importance.

  5 x 3 = 15
- c) What is nanotechnology?

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[TOTAL POINTS 30]

# **QUESTION 3**

- a) List and discuss three (3) properties of spandex fibres.
- $3 \times 2 = 6$
- b) Name four (4) compound fabrics you know and their uses.
- $4 \times 2 = 8$
- c) Which compound fabric did you make in the clothing laboratory?
  - 2
- d) Discuss the end uses of the compound fabric you named in (c) above under the following:
  - i) For which season would it be suitable for and why?
  - ii) Why did one of you make an oven glove?
  - iii) Why did one of you make a place mat?
  - iv) Why is this compound fabric used for "protective vests"
  - v) Discuss the aesthetic part of the fabric.

 $5 \times 2 = 10$ 

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e) By means of a well labelled diagram, show the structure of a fancy yarn. 4

# [TOTAL MARKS 30]

# **QUESTION 4**

- a) By means of well labelled diagrams, show six (6) classes of care symbols that were passed by Permanent Care Labelling Regulation of 1972.  $6 \times 2 = 12$
- b) When were compound yarns developed and what is the other name?
- c) Which special-use fibres would you choose for the following and why?
  - i) Bullet proof vest and knife resistant vest.
  - ii) Noise abatement curtains
  - iii) Fire fighters coat or foundry workers clothes.
  - iv) Protective garment for pesticide spraying or infectious diseases.
  - v) Isolation wards

 $5 \times 2 = 10$ 

d)To evaluate durability of fabrics in the laboratory, which four (4) performance checks of the fabric would you do?

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**[TOTAL POINTS 30]**