

2ND SEM. 2011/2012

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME : BACHELOR OF SCIENCE IN
TEXTILE AND APPAREL DEASIGN &
MANAGEMENT YEAR II
BACHELOR OF SCIENCE IN
CONSUMER SCIENCE EDUCATION
YEAR II**

COURSE CODE : TADM 205

TITLE OF PAPER : TEXTILE SCIENCE AND LAUNDRY

TIME ALLOWED : TWO (2) HOURS

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

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GRANTED BY THE CHIEF INVIGILATOR**

QUESTION 1 (COMPULSORY)

- a) For children's **summer clothes** at SOS orphanage, which **textile fibre or fabric** and its advantages would you use to convince the director to buy?
[7 x 2 = 14]

- b) List and explain **five (5) ingredients** added to **synthetic powdered detergents** and their usefulness in laundry. Tabulate your answer in this way:

<u>INGREDIENTS</u>	<u>USEFULNESS</u>
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[5 x 2 = 10]

- c) State **three (3) reasons** why **mixtures and blends of fibres or fabrics** were developed by textile scientists and are used by textile consumers.
[3 x 3 = 9]

- d) Write garment **care symbols** you would expect on a **knitted acrylic T- shirt**.
[5]

- e) What have you **gained** by doing **practical exercises in this course**?
[2]

[TOTAL MARKS = 40]

QUESTION 2

- a) List and describe **five (5) fabric finishes** that improve the **serviceability of fabric** and cite examples.
[5 x 3 = 15]

- b) In the textile science laboratory, you did a **burning test** on **cotton and wool**. What did you observe?

- i) What happens when approaching the flame?
- ii) What happens when in the flame?
- iii) How do the fumes smell?
- iv) What happens when removed from the flame?
- v) What colour and texture are the leftovers after burning? Tabulate your answer in this way:

<u>COTTON</u>	<u>WOOL</u>
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- i)
 - ii)
- [5 x 2 = 10]

- c) Write about the **environmental impact** of growing and processing **linen**.
[5]

[TOTAL MARKS = 30]

QUESTION 3

- a) Explain **four(4) reasons** that lead to the **development of synthetic fibres**?
[4 x 2 = 8]
- b) List and describe **five (5) nylon properties** that made this synthetic fibre and fabric very different from the **natural fibres and fabrics**.
[5 x 3 = 15]
- c) How would you remove each of the following **stains** and include the **reagents you** would use:
- i) Grass
 - ii) Blood
 - iii) Ink or ballpoint ink
- [3 x 2 = 6]
- d) Define what is a fibre? [1]

[TOTAL MARKS = 30]

QUESTION 4

- a) List and discuss **five (5) properties of wool** that make it **suitable** for clothes.
[5 x 3 = 15]
- b) The chief cleansing agent used in laundry work is water. Name **four types (4) of water** and **their properties**. Tabulate your answer in this way:

<u>TYPE OF WATER</u>	<u>PROPERTIES</u>
i)	
ii)	

- i)
- ii)

[4 x 2 = 8]

- b) Why are you studying **textile science** or what have you **gained** by doing this **course**? Briefly explain, giving examples. [7]

[TOTAL MARKS = 30]