



2ND SEM. 2008/2009

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME : BACHELOR OF SCIENCE IN HOME
ECONOMICS, HOME ECONOMICS
EDUCATION AND TEXTILE SCIENCE
AND LAUNDRY 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 TWO (2) QUESTIONS**

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GRANTED BY THE CHIEF INVIGILATOR**

TEXTILE SCIENCE AND LAUNDRY

QUESTION 1

- a) List and discuss five (5) properties of wool that makes it desirable for clothes.
[15 marks]
- b) Discuss three (3) reasons why mixtures and blends of fibres or fabrics were developed by textile scientists and are used by textile consumers.
[10 marks]
- c) The chief cleansing agent used in laundry work is water. Name four (4) types of water and their properties. Tabulate your answer this way:

TYPE OF WATER	PROPERTIES
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i)

[8 marks]

- d) Why are you studying textile science? Briefly discuss, giving examples.
[7 marks]

[TOTAL MARKS 40]

QUESTION 2

- a) For children's clothes at SOS orphanage, which fibre or fabric and its advantages would you use to convince the director to buy? [7 x 2 = 14 marks]
- b) List and discuss five (5) ingredients added to synthetic powdered detergents and their usefulness in laundry. Tabulate your answer in this way.

INGREDIENTS	USEFULLNESS
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[5 x 2 = 10]

- c) Write garment care symbols you would expect on a knitted T-shirt.

[6 marks]

[TOTAL MARKS 30]

QUESTION 3

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

b) In the textile science laboratory, you did a burning test of cotton fibre and wool fibre: What did you observe?

- i) What happens when approaching the flame?
- ii) What happens when in 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:

COTTON	WOOL

i)

ii)

[5 x 2 = 10]

c) Which labour saving equipment would you buy for washing and drying for the SOS orphanage and why? **[5 marks]**

[TOTAL MARKS 30]

QUESTION 4

a) Discuss four (4) reasons that lead to the development of synthetic fibres.

[4 x 2 = 8]

b)

c) Explain five (5) nylon properties that made this synthetic fibre and fabric very different from the natural fibres and fabrics. **[5 X 2 = 10]**

d) Explain two (2) important reasons for laundering your clothes.

[2 x 2 = 4]

e) Discuss how you will remove each of the following stains and the reagents you would use:

- i) Grass
- ii) Blood
- iii) Ink or ballpoint ink
- iv) Tea or coffee

[4x2 = 8]

[TOTAL MARKS 30]