



**UNIVERSITY OF SWAZILAND**  
**FINAL EXAMINATION PAPER**

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

**COURSE CODE :** TADM 402

**TITLE OF PAPER :** QUALITY CONTROL AND ASSURANCE IN  
TEXTILES AND APPAREL

**TIME ALLOWED :** TWO (2) HOURS

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

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THE CHIEF INVIGILATOR**

**QUESTION 1(COMPULSORY)**

- a) 'There are many different perceptions and definitions of quality. In order to communicate effectively about quality, managers need to recognize that differences in perceptions of quality exist). Briefly discuss the various quality perceptions being alluded to in this statement. (20 Marks)
  - b) Discuss your understanding of the Deming Cycle (8 Marks)
  - c) Discuss the main reasons for carrying out tests on materials and or products (10 Marks)
  - d) Name any **two (2)** standards organisations that deal with textile products (2 Marks)
- [TOTAL MARKS = 40]

**QUESTION 2**

- a) Define quality assurance and with the aid of a flow diagram show the concepts involved in quality assurance (10 Marks)
- b) Briefly discuss the **six (6)** ASTM consensus standards (12 Marks)
- c) As a new Quality manager to a Textile and Clothing company discuss why you would encourage your new organisation to adopt standards as part of its Quality assurance requirements (8 Marks)

[TOTAL MARKS =30]

**QUESTION 3**

- a) Explain the effect of moisture on properties of textile materials, use examples in your discussion (6 Marks)
- b) Make a sketch of a product of your choice and identify different zones that can be used to evaluate the product for defects. Explain your rationale for the boundaries of the zones. (16 Marks)
- c) Write brief notes on accelerated testing (8 Marks)

**QUESTION 4**

- a) Abrasion resistance of textile materials is a very complex phenomenon and it is affected by many factors. Discuss **four (4)** factors that affect the abrasion of textile materials (12 Marks)
- b) Briefly describe the **three (3)** general types of abrasion (6 Marks)
- c) Give a property of textiles that is measured using a cantilever test and describe how the test is carried out (10 Marks)
- d) What is the difference between waterproof and water resistant materials (2 Marks)

[TOTAL MARKS =30]