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1ST SEM. 2014/2015

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME : BACHELOR OF SCIENCE IN
TEXTILES, APPAREL DESIGN &
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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GRANTED BY THE CHIEF INVIGILATOR**

QUESTION 1 (COMPULSORY)

- (a) Quality is perceived differently based on who is defining it or who has an interest. Describe **five (5)** different quality perceptions, including an example for each way. **(20 Marks)**
- (b) Standards and specifications are key in apparel production. From the general types of specification stated by Kadoh, describe **five (5)** types that relate to apparel manufacturing and give an example for each type. **(15 Marks)**
- (c) What textile property is measured by the following instruments? State their importance.
- (i) Taber Abrader
 - (ii) Cantilever tester
 - (iii) Rota washer
 - (iv) Crockmeter
 - (v) Colourimeter
- (5 Marks)**

[TOTAL MARKS = 40]

QUESTION 2

- (a) You have won a tender to design and manufacture a range of protective wear for Royal Swaziland Sugar Corporation. Describe **two (2)** key tests you would conduct on the fabric and state why you chose the selected tests. **(12 Marks)**
- (b) Draft key attributes of an evaluation guide for quality assessment of the protective wear and state **one (1)** key specification under each key attribute. **(10 Marks)**
- (c) What are the **eight (8)** sequences of operations you would go through to determine the AQL? **(8 Marks)**

[TOTAL MARKS = 30]

QUESTION 3

- (a) The production area at YKK Zip Company uses a quality model that was promoted by one of the quality pioneers. State the philosophy and describe, with the aid of an illustration, the quality model used by the company. **(8 Marks)**
- (b) With the aid of a sketch of an apparel of your choice, indicate the **four (4)** different quality zones and explain what each zone means. **(6 Marks)**
- (c) Differentiate between open and closed specifications. **(4 Marks)**
- (d) How can you quantify fabric flaws and how can you deal with rejected fabric or when the percentage is high? **(10 Marks)**
- (e) State the importance of assessing fabric width and shade. **(2 Marks)**

[TOTAL MARKS = 30]
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QUESTION 4

- (a) Briefly discuss the **four (4)** key elements essential in apparel quality assessment.
(16 Marks)
- (b) What shrinkage levels of fabric are acceptable for knits and wovens (TC and 100% cotton). Tabulate your answer.
(4 Marks)
- (c) Differentiate the following ways of testing:
- i) Product/Laboratory testing
 - ii) Wear testing
- (4 Marks)
- (d) In evaluating the production environment, the buyer's interest is on the company's production capacity. State aspects that are considered by the buyer.
(6 Marks)

[TOTAL MARKS = 30]