



1ST SEM. 2016/17

PAGE 1 OF 3

UNIVERSITY OF SWAZILAND FINAL EXAMINATION PAPER

PROGRAMME

BACHELOR OF SCIENCE IN TEXTILE

APPAREL DESIGN AND MANAGEMENT YEAR

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

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



PAGE 2 OF 3 **TADM 402 (M)**

QUESTION 1(COMPULSORY)

a) Quality is perceived differently based on who is defining it. Describe five (5) different quality perceptions. (20 Marks)

b) Describe the six (6) types of full consensus standards that were developed by ASTM.

(12 Marks)

c) Briefly discuss what you understand by the following concepts:

Quality control

ii. Quality assurance

(8 Marks)

[TOTAL MARKS = 40]

QUESTION 2

a) According to Kadolph (2007), testing is a common practice within the textile industry complex to assess materials and products in an effort to minimise product failure and improve customer satisfaction. Discuss the different ways of testing that can be used to assess materials and or products (20 Marks)

b) Name two (2) organisations involved in the development of standards in the Textile (2 Marks)

c) Briefly describe the following types of specifications

i. Target

ii. Functional

iii. Material

iv. Product

(8 Marks)

[TOTAL MARKS = 30]

QUESTION 3

a) You have been tasked with developing a Standard Test method that will be used to evaluate moisture properties of fabrics produced by a group of companies. Discuss three (3) key criteria that you will have to consider when developing the test method.

b) Discuss five (5) qualitative procedures that can be used to determine the generic fibres (15 Marks)

[TOTAL MARKS = 30]

QUESTION 4

- a) Briefly discuss how the following elements are evaluated during finished product
 - i. Design
 - ii. Fit

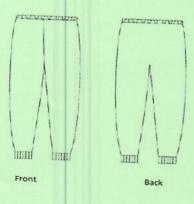
PAGE 3 OF 3 TADM 402 (M)

iii. Appearance

iv. Size

b) For the sketches given below, identify and explain three zones than can be used in the evaluation of the pants.

(12 Marks)



c) Define Body scanning

(2 Marks)

[TOTAL MARKS = 30]



1ST SEM. 2016/17

PAGE 1 OF 3

UNIVERSITY OF SWAZILAND SUPPLEMENTARY 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

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

PAGE 2 OF 3 **TADM 402 (S)**

QUESTION 1 (COMPULSORY)

a) Discuss six (6) dimensions of quality, giving an example for each dimension.

(18 Marks)

b) Give a detailed description of the Cantilever stiffness test and show how the stiffness of a material is determined using this test. (15 Marks)

c) List five (5) factors that might affect the accuracy of a test results? (5 Marks)

d) Why is it important for testing of materials to be done under standard conditions?

(2 Marks)

[TOTAL MARKS =40]

QUESTION 2

a) The Company that you work for has decided to use an Independent testing facility for all its testing needs, as a Quality Manager, discuss the factors you will consider when choosing the testing facility (9 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. (15 Marks)

c) Briefly explain the following types of shrinkage:

i. Relaxation shrinkage

ii. Felting shrinkage

iii. Residual shrinkage

(6 Marks)

[TOTAL MARKS = 30]

QUESTION 3

a) Quality is perceived differently based on who is defining it. Describe five different quality perceptions (20 Marks)

b) Explain the difference between CRT and CRE based tensile testing machines.

(4 Marks)

c) With the aid of a diagram show how the specimen in a modified grab test is prepared. (6 Marks)

[TOTAL MARKS =30]

QUESTION 4

a) Discuss the application of materials testing to product development. (12 Marks)

b) Discuss five (5) qualitative procedures that can be used to determine the generic fibres present in a material. (15 Marks)

PAGE 3 OF 3 TADM 402 (S)

c) Name three (3) organisations involved in developing standards in Textile. (3 Marks)

[TOTAL MARKS = 30]