1ST SEM. 2019/20

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UNIVERSITY OF ESWATINI FINAL EXAMINATION PAPER

PROGRAMME

BACHELOR OF SCIENCE IN TEXTILE

APPAREL DESIGN and MANAGEMENT YEAR

IV

COURSE CODE

TAD403

TITLE OF PAPER:

QUALITY CONTROL AND ASSURANCE IN

TEXTILES

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS:

ANSWER QUESTION ONE (1)

AND ANY OTHER TWO (2) QUESTIONS

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QUESTION 1(COMPULSORY)

- a) Discuss why standards are important for the following entities (12 Marks)
 - i) Businesses
 - ii) Global economy
 - iii) Consumers
- b) Define Quality and discuss the importance to a company in understanding that there are different perspectives to quality. (10 Marks)
- c) Briefly describe the following types of specifications giving an example where each specification can be used in relation to textile products (9 Marks)
 - i) Functional
 - ii) Materials
 - iii) Process
- d) The strip test is one of the tests that can be done to determine the tensile strength of a fabric. Briefly describe this test. (5 Marks)
- e) Name four (4) factors that can influence a test result.

[TOTAL MARKS = 40]

(4 Marks)

QUESTION 2

- a) Abrasive wear in textiles is caused by different conditions. With the aid of examples describe four (4) conditions that are usually attributed to abrading textile products.
 (8 Marks)
- b) Name and describe three (3) sampling plans that a company can use to evaluate the quality of finished products before shipping. (9 Marks)
- c) Briefly explain your understanding of an Operating characteristic curve. (4 Marks)
- d) Define thermo-physiological comfort and give three (3) properties of a material that influence its thermo-physiological comfort. (5 Marks)
- e) Explain how fabric thickness affects product comfort

[TOTAL MARKS = 30]

QUESTION 3

a) Briefly describe the following types of inspection

(10 Marks)

(4 Marks)

- i) Source
- ii) Pilot lot
- b) Define the following types of shrinkage

(6 Marks)

- i) Relaxation
- ii) Residual
- iii) Felting
- c) Briefly describe an inspection loop.

(5 Marks)

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d) Discuss your understanding of comfort stretch.

(5 Marks)

e) Explain why assessment of hand is of interest to producers and consumers of textile products. (4 Marks)

[TOTAL MARKS = 30]

QUESTION 4

a) Define product zoning and using a product of your choice, explain how this is used in the evaluation of apparel products. (15 Marks)

b) Discuss how the quality of a product affects customer satisfaction (10 Marks)

c) Explain in-process inspections in terms of when it occurs and what it entails.

(5 Marks)

[TOTAL MARKS = 30]