

1st SEM. 2013/14

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UNIVERSITY OF SWAZILAND FINAL EXAMINATION PAPER

PROGRAMME :

BARCHELOR OF SCIENCE IN TEXTILE

APPAREL DESIGN AND MANAGEMENT YEAR

 \mathbf{IV}

COURSE CODE :

TADM 404

TITLE OF PAPER:

CONTEMPORARY 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) Define and give two (2) examples of

i) Textile innovation

ii) Emerging fibres.

(4 Marks)

b) Define novelty yarns and explain four (4) points on their performance.

(4 Marks)

c) Discuss how the textile industry has impacted the environment.

(10 Marks)

d) Discuss the responsibility of the Environmental Protection Agency (EPA). (10 Marks)

e) Explain four (4) aesthetic finishes used to introduce the following textile properties.

i) Luster

ii) Drape

iii) Texture and hand

(3 X 4 = 12 Marks)

[TOTAL MARKS = 40]

QUESTION 2

a) Compare and contrast conventional and organic cotton.

 $(5 \times 2 = 10 \text{ Marks})$

b) Identify and briefly explain five (5) impact factors of nanotechnology to the environment.

(10 Marks)

c) Discuss five (5) performance criteria of a work place visibility vest.

est. (10 Marks)
[TOTAL MARKS = 30]

QUESTION 3

- a) Discuss five (5) performance characteristics of acrylic filter bags for power generation plants. (10 Marks)
- b) Using illustrations discuss five (5) points on how the structure of a simple weft knit differs from the structure of a simple warp knit. (10 Marks)
- c) Discuss five (5) compound fibres discussed in class.

(10 Marks)

[TOTAL MARKS = 30]

QUESTION 4

- a) Briefly explain the performance of knit fabrics under the following headings:
 - i) Elongation /Extensibility
 - ii) Insulation and air permeability
 - iii) Pilling and snagging
 - iv) Strength and abrasion resistance
 - v) Relaxation and shrinkage

(10 Marks)

- b) List and briefly describe five (5) performance areas of technical (high performance) fibres/fabrics. (10 Marks)
- c) List any five (5) "Green fibres" and discuss two (2) points on how each is eco-friendly.

(10 Marks)

[TOTAL MARKS = 30]