

2ND SEM. 2018/19

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UNIVERSITY OF ESWATINI
RE-SIT/ SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME : BACHELOR OF SCIENCE IN TEXTILE, APPAREL
DESIGN AND MANAGEMENT YEAR IV

COURSE CODE : TAD402/ 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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CHIEF INVIGILATOR

QUESTION 1 (COMPULSORY)

a) Describe the performance characteristics of the following Smart textiles:

- i) Hydroweave
- ii) Lastol
- iii) Smart skin
- iv) Sensatex
- v) Securus

(16 Marks)

b) Explain moisture management and its importance in sportswear.

(8 Marks)

c) Finishes are applied to textiles to achieve several qualities.

i) Name **four (4)** comfort finishes.

(4 Marks)

ii) Name **one (1)** apparel/textile on which each finish in i) may be beneficial.

(4 Marks)

iii) Name **one (1)** way in which each finish in i) may be introduced in apparel/textiles.

(8 Marks)

[TOTAL MARKS = 40]

QUESTION 2

a) The Optim range of fibre treatments is an innovation that has enhanced textile performance. Discuss **four (4)** performance qualities of fibres under the Optim range.

(12 Marks)

b) Name and discuss **four (4)** environmental laws and regulations that ensure the impact of the textile industry is minimised.

(12 Marks)

c) Name and illustrate **three (3)** common compound fabrics.

(6 Marks)

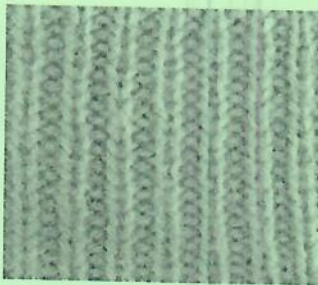
[TOTAL MARKS = 30]

QUESTION 3

a) Describe the **three (3)** different categories of protective clothing. (12 marks)

b) Knitting is one of the fabrication methods.

i) Name the knit fabric below. (2 Marks)



ii) Name **two (2)** uses of the knit fabric in i) above. (4 Marks)

iii) Give **two (2)** performance characteristics of the knit fabric in i) above. (4 Marks)

c) Explain **three (3)** ways on how the textile industry in ESwatini would ensure the safety of employees. Suggest **one (1)** regulation they need to adhere to. (6 + 2 = 8 Marks)

[TOTAL MARKS = 30]

QUESTION 4

- a) Describe **five (5)** ways in which the main features of the HUUB wetsuit below enhance the performance of the wearer during swimming. **(10 Marks)**



- b) Describe **five (5)** different applications of Kevlar® fibre in textiles to show its versatility. **(10 Marks)**
- c) What are wearable electronics? Describe **three (3)** ways in which wearable electronics benefit the consumer. **(4 + 6 = 10 Marks)**

[TOTAL MARKS = 30]