



2nd SEM. 2014/2015

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**UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER**

**PROGRAMME : BACHELOR OF SCIENCE IN TEXTILE
APPAREL DESIGN AND MANAGEMENT YEAR
II**

COURSE CODE : TADM 206

TITLE OF PAPER : FABRIC CONSTRUCTION

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**

QUESTION 1 (COMPULSORY)

- a) Differentiate between the structure and performance characteristics of the following knit fabrics:
i) Single jersey knit
ii) Rib knit
iii) Purl knit **(3 X 6 = 18 Marks)**
- b) Describe the **five (5)** main steps of the weaving process. **(10 Marks)**
- c) Discuss **five (5)** performance characteristics of woven fabrics. **(10 Marks)**
- d) What is the type of fabric made of cotton warp and silk filling/weft? **(2 Marks)**

[TOTAL MARKS = 40]

QUESTION 2

- a) Describe **five (5)** aspects relating to the environmental impact of yarn processing. **(10 Marks)**
- b) Explain **four (4)** ways of inserting the filling (weft) yarns in shuttle less looms. **(8 Marks)**
- c) Discuss **five (5)** points on how the structure of a simple weft knit differs from a simple warp knit. **(10 Marks)**
- d) State **four (4)** reasons for the use of fabric blends. **(2 Marks)**

[TOTAL MARKS = 30]

QUESTION 3

- a) Give **three (3)** benefits of loom advancement. (6 Marks)
- b) Differentiate between:
- i) Blends
 - ii) Mixtures
 - iii) Combinations (6 Marks)
- c) State four **(4)** characteristics of a single jersey/single knit fabric. (8 Marks)
- d) Name and explain at least **five (5)** steps followed in staple yarn processing. (10 marks)

[TOTAL MARKS = 30]**QUESTION 4**

- a) Name and describe **three (3)** basic weaves, include **three (3)** examples of fabrics under each weave. (3 X 5 = 15 Marks)
- b) Give **four (4)** characteristics of felt fabrics. (4 Marks)
- c) Describe the warping process through a basic shuttle-less loom. (5 Marks)
- d) Give **four (4)** reasons for testing fibres. (4 Marks)
- e) Define the Tex and Denier systems of yarn count. (2 Marks)

[TOTAL MARKS = 30]