

**2<sup>ND</sup> SEM. 2012/13**



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TADM 309 (M)**

**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION PAPER**

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

**COURSE CODE : TADM 309**

**TITLE OF PAPER : GARMENT TECHNOLOGY**

**TIME ALLOWED : TWO (2) HOURS**

**INSTRUCTIONS : ANSWER QUESTION ONE (1)  
AND ANY OTHER (2) QUESTIONS**

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GRANTED BY THE CHIEF INVIGILATOR**

**QUESTION 1 [COMPULSORY]**

- (a) Finishing of apparel has evolved over the years from the use of resin finish to impart permanent press qualities on cotton fabrics that adversely affected the fabric properties to better non-iron processes with less effect of fabric properties. Describe **five (5)** current commercially available non-iron processes including an advantage and disadvantage of each process.

**(3 x 5 = 15 Marks)**

- (b) Discuss how method and time studies are involved in production engineering.

**(10 + 8 + 2 = 20 Marks)**

- (c) What is SMV and what other factors do you have to include in addition to the Total Basic Time and why?

**(5 Marks)**

**[TOTAL MARKS = 40]**

**QUESTION 2**

- (a) In apparel manufacture there are different seam types used for specific purposes. State **five (5)** seam types, where they are most suitably used and give an example of each type.

**(3 x 5 = 15 Marks)**

- (b) Sewing thread is sold in different packages appropriate for the thread type and its end use. Describe **five (5)** different thread packages.

**(3 x 5 = 15 Marks)**

**[TOTAL MARKS = 30]**

**QUESTION 3**

- (a) Garment production prior to World War I and II was not that advanced and more suitable for the cottage industry. After 1945, what were the technological advancements related to apparel manufacture in society and what triggered their occurrences?

**(10 + 5 = 15 Marks)**

- (b) The production department in apparel also involves some management aspects in production. What tools would assist the production manager to facilitate an efficient production process and how do they facilitate better management?

**(15 Marks)**

**[TOTAL MARKS = 30]**

**QUESTION 4**

- (a) Discuss the current product development model in apparel production.

**(5 + 12 + 3 = 20 Marks)**

- (b) Explain the **two (2)** qualities of sewing thread that are crucial in sewing quality product.

**(5 x 2 = 10 Marks)**

**[TOTAL MARKS = 30]**