



2nd SEM. 2017/2018

PAGE 1 OF 3

UNIVERSITY OF SWAZILAND

RESIT EXAMINATION PAPER

PROGRAMME : BACHELOR OF SCIENCE IN TEXTILE, APPAREL DESIGN AND MANAGEMENT and CONSUMER SCIENCE EDUCATION YEAR II

COURSE CODE : TAD202

TITLE OF PAPER : OPERATION AND MAINTENANCE OF SEWING MACHINES

TIME ALLOWED : TWO (2) HOURS

INSTRUCTION : 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) Stitch types are classified according to ISO 4915: 1991 into six basic stitch types i.e. class 100 to 600.

i) List any **five (5)** of the stitch types

(5 Marks)

ii) Fully describe the features and uses for any **three (3)** of the stitch type/class mentioned above (i).

(15 Marks)

b) Discuss **five (5)** causes of fabric damage during sewing and how the damage can be prevented.

(20 Marks)

[TOTAL MARKS = 40]

QUESTION 2

a) Compare and contrast the following sewing machines based on their features and uses.

i) Post bed machine and cylinder bed machine

(6 Marks)

b) Besides the basic motion of needles, loopers and bobbins, the feed motion is critical in ensuring that the material being sewn must move so that each cycle of needle motion involves a different part of the material. Describe **four (4)** types of feed motion.

(12 Marks)

c) Describe the following parts of the lock stitch sewing machine and state the consequence of not having these parts on your machine while sewing.

i) Presser foot

ii) Throat plate

iii) Rotating hook

(6 Marks)

d) Discuss **three (3)** key points to consider when buying an industrial sewing machine.

(6 Marks)

[TOTAL MARKS = 30]

QUESTION 3

- a) Industrial sewing machines are robustly built for continuous operation at high speeds. Discuss the several ancillary mechanisms they are provided with to reduce the time needed by the operator for non-sewing activities.

(10 Marks)

- b) How do you think the TAD202 (Operations and Maintenance of Sewing machines) course will add value to your career?

(5 Marks)

- c) Needles are often changed in apparel mass production firms. Give six (6) possible reasons for changing needles.

(15 Marks)

[TOTAL MARKS = 30]

QUESTION 4

- a) Discuss **ten (10)** safety rules you observe to maintain a safe working environment. Justify the observance of the safety rules you mention.

(20 Marks)

- b) Give **five (5)** sewing machine attachments you used in class and fully explain why the attachments were used and on which part of the garment.

(10 Marks)

[TOTAL MARKS = 30]