

2<sup>ND</sup> SEM. 2018/2019



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**UNIVERSITY OF ESWATINI**

**FINAL EXAMINATION PAPER**

- PROGRAMME** : **BACHELOR OF SCIENCE IN  
CONSUMER SCIENCE EDUCATION YEAR II**
- COURSE CODE** : **TAD202**
- TITLE OF PAPER** : **OPERATION AND MAINTENANCE OF  
SEWING MACHINE**
- 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**

**QUESTION1 (COMPULSORY)**

- (a) Describe the following parts of the lockstitch machine.
- i) Bed (2 Marks)
  - ii) Motor belt (2 Marks)
  - iii) Slide plate (2 Marks)
  - iv) Face plate (2 Marks)
  - v) Arm (2 Marks)
- (b) Reels of sewing threads are bought as they are needed for use.
- i) Give **four (4)** points to consider when choosing thread for the construction of a garment. (4 Marks)
  - ii) State **four (4)** advantages of stitching using polyester cotton blended thread. (4 Marks)
- (c) State **two (2)** uses of an oil pump in an industrial sewing machine. (2 Marks)
- (d) Discuss **five (5)** benefits of using an industrial sewing machine in garment construction. (20 Marks)

[TOTAL MARKS = 40]

**QUESTION 2**

- (a) Write down all the steps followed when changing the machine needle in an industrial sewing machine. (9 Marks)
- (b) How are the feed teeth correctly adjusted for the following fabrics?
- i) Light fabrics (2 Marks)
  - ii) Medium fabrics (2 Marks)
  - iii) Heavy fabrics (2 Marks)
- (c) State the names of the following classes of stitches and elaborate on the features and application of each.
- i) 100 (3 Marks)
  - ii) 200 (3 Marks)
  - iii) 500 (9 Marks)

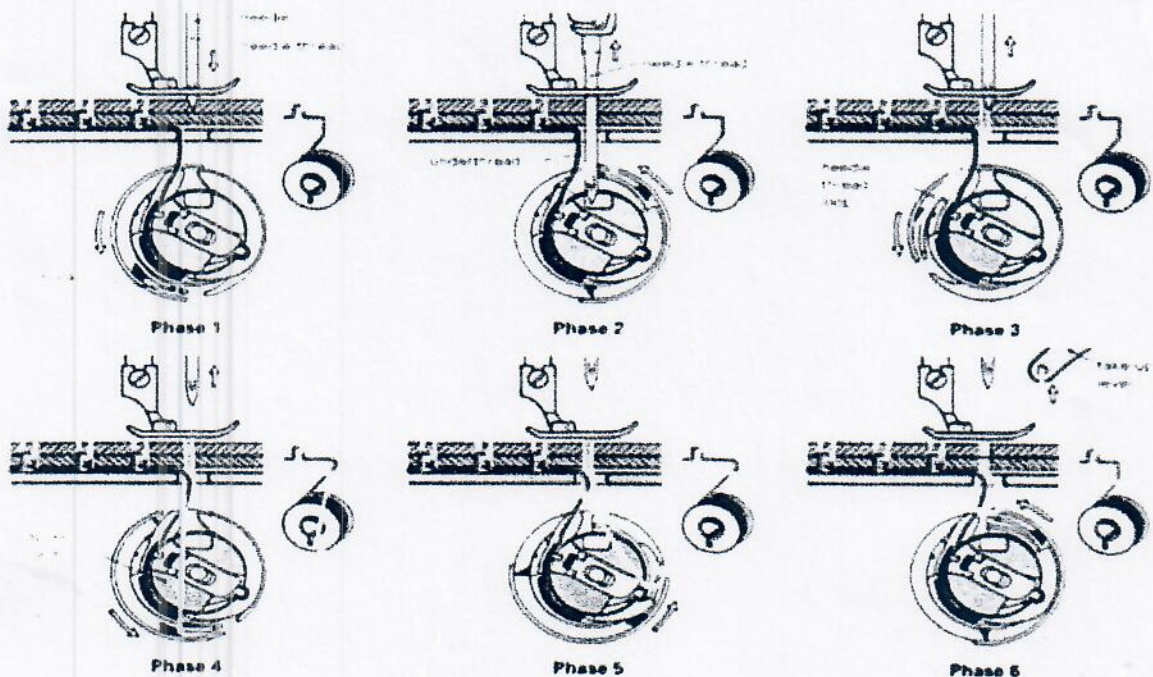
[TOTAL MARKS = 30]

**QUESTION 3**

- (a) Explain **five (5)** instances when it would be necessary to adjust the thread tension in a sewing machine. **(5x3=15 Marks)**
- (b) State **three (3)** remedies for each of the following defects of an overlock machine.
- Thread break **(3 Marks)**
  - Needle breaking **(3 Marks)**
  - Puckering **(3 Marks)**
- (c) State **six (6)** points to remember when stitching with a sewing machine. **(6 Marks)**

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

- (a) Using the diagrams below, narrate how the lock stitch is formed in each phase.

**(6x2=12 Marks)**

- (b) Sewing machine attachments are used by most industries in construction of garments.
- Give **four (4)** attachments used in an industry. **(4 Marks)**
  - State **four (4)** advantages of using these attachments during the apparel construction. **(4 Marks)**
- (c) Discuss **five (5)** ancillary mechanisms provided by industries to reduce the time needed by the operator for non-sewing activities. **(10 Marks)**

**[TOTAL MARKS = 30]**