

The Open University of Sri Lanka
Faculty of Engineering Technology
Department of Textile and Apparel technology



Study Programme	: Advanced Certificate in Apparel Technology
Name of the Examination	: Final Examination
Course Code and Title	: TAI2886/TAI2F34/TTI2634 Apparel Technology
Academic Year	: 2019/2020
Date	: 02 nd August 2020
Time	: 0930-1230hrs
Duration	: 3 hours

General Instructions

1. Read all instructions carefully before answering the questions.
 2. This question paper consists of eight (8) questions in three (3) pages.
 3. Answer six (6) questions including question 1, which is compulsory.
 4. Marks for each question are given at the end of the question.
 5. Answer for each question should be commenced from a new page.
 6. Answers should be in clear hand writing.
 7. Do not use red colour pens.
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Compulsory Question

- (1) (a) Explain with clear diagrams, the method of taking three (3) body measurements required to draft basic skirt block pattern. (6 Marks)
- (b) Write four (4) functions of interlinings in garments. (4 Marks)
- (c) Define the stitch length of a lock stitch using a clear diagram. (3 Marks)
- (d) What is the function of a back tack lever in a sewing machine? (2 Marks)
- (e) Define the Standard Minute Value (SMV) of a sewing machine operator. (4 Marks)
- (f) Write three (3) purposes of using stays in garments. (3 Marks)
- (g) Define the term "productivity". (3 Marks)

Answer any five (5) questions from the following (7) questions.

- (2) (a) Explain the two (2) main methods of pattern construction, namely pattern drafting and pattern manipulation. (2 Marks)
- (b) What are the body measurements required to construct the back pattern of a basic bodice block? (3 Marks)
- (c) With rough sketches explain the method of constructing the back pattern of a basic bodice block. (10 Marks)
- (3) (a) Write five (5) parts of a sewing machine and explain the functions of each part. (5 Marks)
- (b) Write four (4) different types of sewing machine beds. Discuss the importance of the bed types by giving different applications for each bed type you mentioned. (8 Marks)
- (c) Explain how the tension of the needle thread and the bobbin thread is adjusted in a single needle lock stitch machine. (2 Marks)
- (4) (a) Describe five (5) different types of feeding mechanisms used in a sewing machines. (10 Marks)
- (b) Explain five (5) types of presser foot which can be attached in sewing machines used for different functions. (5 Marks)

- (5) (a) Describe three (3) factors to be considered in lay planning. (3 Marks)
- (b) Calculate how the lay plan is prepared for the following cutting order. Maximum number of sizes that can be accommodated in a marker is 3. Maximum height of the lay is 36 plies.

Size	10	12	14	16	18
Number of garments	36	36	72	72	108

- (6) Write short notes on followings.
- (a) Cutting equipments used for fabric cutting (5 Marks)
- (b) Different types of fabric faults (5 Marks)
- (c) Garment production systems (5 Marks)
- (7) (a) Discuss the purposes of the performance evaluation. (8 marks)
- (b) Briefly discuss the errors associated with the performance evaluation. (7 marks)
- (8) Briefly discuss how to ensure the safety of the employees in a garment factory, emphasizing the types of accidents which can occur and the methods which can be followed to prevent them happening. (15 Marks)