

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



Study Programme	: Advanced Certificate in Industrial Studies
Name of the Examination	: Final Examination
Course Code and Title	: TAI2F34/TTI2634 Apparel Technology
Academic Year	: 2017/18
Date	: 31 st January 2019
Time	: 0930-1230hrs
Duration	: 3 hours

General Instructions

1. Read all instructions carefully before answering the questions.
 2. This question paper consists of nine (9) 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 the method of “pattern manipulation”, which is widely practiced in the garment manufacturing process. (4 Marks)
- (b) What is the purpose of having darts in flat patterns? (3 Marks)
- (c) Explain what will happen if the sewing thread tension of a lock stitch machine is not properly balanced. (3 Marks)
- (d) Briefly describe three (3) common types of buttons. (3 Marks)
- (e) Describe three (3) main functions of the cutting department. (3 Marks)
- (f) Draw a rough sketch of a basic skirt pattern and mention four (4) pattern specifications inside it. (4 Marks)
- (g) Calculate the ticket number of sewing thread made up of 3 plies of 60 metric count thread. (5 Marks)

Answer any five (5) questions from the following (8) questions.

- (2) (a) What are the body measurements required to construct patterns for a gent’s basic trouser? (2 Marks)
- (b) With rough sketches explain the method of taking the body measurements you mentioned in part (a) from a male figure. (4 Marks)
- (c) With rough sketches explain the method of constructing the front pattern for the basic trouser. (9 Marks)
- (3) (a) Explain what you mean by “interlooping”, “intralooping” and “interlacing”. (3 Marks)
- (b) Classify the stitches according to British Standard. (3 Marks)
- (c) Explain four (4) different types of stitches with respect to following aspects. (9 Marks)
- (i) Type of sewing thread/s required for the stitch
- (ii) Top and bottom views of the stitch type
- (iii) Applications of the stitch type
- (4) (a) Define the seam according to British Standard. (3 Marks)
- (b) Explain the method of the formation of six (6) different types of seams. Mention at least one application for each seam type. (12 Marks)

- (5) (a) Explain the use of presser foot in a sewing machine considering three (3) different types of presser foots. (6 Marks)
- (b) Explain three (3) different mechanisms, which can be used to feed material from one stitch position to the next during stitching. (9 Marks)

- (6) (a) What is meant by "line balancing"? (3 Marks)
- (b) A production line includes the following operations.

Operation		SMV
1.	Make sleeves	2.60
2.	Close darts and seams	5.01
3.	Under press	3.60
4.	Sew on collar	2.05
5.	Sew in sleeves	1.65
6.	Sew hem	1.55
7.	Press Off	3.25

- (i) How many work places would be required at each operation to make 180 garments a day? Assume a working day of 450 minutes. (5 Marks)
- (ii) How many actual operators would be needed to staff the line? (3 Marks)
- (iii) Calculate the balancing loss of this sewing line. (4 Marks)
- (7) Write short notes on followings.
- (a) Important machinery and equipment used in the cutting room (5 Marks)
- (b) Preventing the faults which occur during pattern making. (5 Marks)
- (c) Material handling systems used in the sewing room. (5 Marks)
- (8) Briefly discuss the five (5) total management functions in an organisation. (15 marks)
- (9) (a) Describe the purposes of the "performance evaluation". (8 marks)
- (b) Briefly discuss the weaknesses associated with the "performance evaluation". (7 marks)