



THE OPEN UNIVERSITY OF SRI LANKA
DEPARTMENT OF TEXTILE AND APPAREL TECHNOLOGY
BACHELOR OF TECHNOLOGY (ENGINEERING)/BACHELOR OF INDUSTRIAL
STUDIES

TTX4238/TTI4238 - GARMENT MANUFACTURE

FINAL EXAMINATION - 2014/2015

DURATION: THREE (03) HOURS

DATE: 27th August 2015

TIME: 0930 TO 1230 HOURS

Total number of questions = 08

Number of questions to be answered = 06

Answer question one (Q1), which is compulsory and five (05) more questions.

Question one (Q1) carries 25 marks and questions two (Q2) to eight (Q8) carry fifteen (15) marks.

Compulsory Question

- (Q1) (a) Write a short note on the factors, which should be considered when deciding the bundle size using in apparel manufacturing. (05 marks)
- (b) Briefly explain why rolled fabric packages are widely used in the apparel Industry. (04 marks)
- (c) Explain the importance of quality control in the cutting department to reduce the internal cost. (05 marks)
- (d) Briefly explain why different types of stitches are widely used in garment manufacturing. (04 marks)
- (e) Write a short note on the factors that you should consider, when selecting seams for garments. (04 marks)
- (f) Briefly explain the importance of the use of attachments and guides in garment manufacturing. (03 marks)

Answer any five (05) from the following seven (07) questions

- (Q2) (a) Briefly explain three (03) important requirements of fabric spreading. (06 marks)
- (b) Compare straight knives and band knives in five (05) aspects. (05 marks)
- (c) Briefly explain the advantages of computer control cutting over the conventional cutting equipments. (04 marks)

- (Q3) (a) Briefly explain the advantages and disadvantages of division of labour. (05 marks)
- (b) Explain the concept of the "Toyota Production System" used in apparel manufacturing. Write the advantages of "Toyota Production System" over the conventional systems used in apparel manufacturing. (10 marks)
- (Q4) (a) Explain why "Straight Line Production System" is not suitable for the production of smaller order quantities. (05 marks)
- (b) What is the most suitable production system for manufacturing sample garments? By giving the concept, advantages and disadvantages, briefly explain the mentioned production system. (10marks)
- (Q5) (a) Briefly explain the importance of preparing operational break downs in garment manufacturing. (05 marks)
- (b) Write a short note on the details/information required to prepare a proper operational break down. (05 marks)
- (c) Briefly explain the sequential steps, that you should follow when preparing a proper operational break down. (05 marks)
- (Q6) (a) With the aid of suitable diagrams, describe four (04) different construction methods of a button placket for a shirt. (08 marks)
- (b) Write a short note on the different methods, which can be used to construct a side seam of a shirt. (07 marks)
- (Q7) (a) Write a comprehensive note on the alternative methods of garment assembly. (08 marks)
- (b) Briefly explain the action of a detergent during the soiled garment washing process. (07 marks)
- (Q8) Write down short notes on three (03) of the following topics.
- (a) Fusing problems. (05 marks)
- (b) Purpose of final pressing. (05 marks)
- (c) Merchandising function of packaging (05 marks)
- (d) Vacuum packing process and its advantages (05 marks)