

THE OPEN UNIVERSITY OF SRI LANKA  
 DEPARTMENT OF TEXTILE AND APPAREL TECHNOLOGY  
 DIPLOMA IN INDUSTRIAL STUDIES  
 TTI4238 - GARMENT MANUFACTURE  
 FINAL EXAMINATION - 2012/2013  
 DURATION: THREE (03) HOURS



DATE: 21<sup>st</sup> August 2013

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 details/information required to prepare a proper operational break down. (03 marks)
- (b) Explain the importance of preparing operational break downs in garment manufacturing. (03 marks)
- (c) Draw the front and back views of a long sleeve shirt and write down the style description. (05 marks)
- (d) Write down the operational break down for the fused two piece collar of a shirt. (06 marks)
- (e) Write down the operational break down for the fused cuff of a long sleeve a shirt. (04 marks)
- (f) Write down four (04) possibilities of stitching a side seam of a shirt. (04 marks)

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

- (Q2) (a) Write a comprehensive note on the requirements of fabric spreading. (10 marks)
- (b) "The selection of spreading techniques mainly depend on the properties, characteristics and design features of the fabrics". Giving examples, justify the above statement. (05 marks)
- (Q3) (a) Explain why "Die cutters" are not suitable for cutting small order quantities. (05 marks)



- (b) Describe the principals of "Laser cutting", "Plasma cutting" and "Water jet cutting" techniques. (05 marks)
- (c) Describe the computerized cutting technique of fabrics. (05 marks)
- (Q4) (a) Briefly explain why "rolled fabric packages" are widely used in the apparel industry. (03 marks)
- (b) Compare the methods of manual spreading and machine spreading in all aspects. (06 marks)
- (c) Briefly explain the importance of bundling and numbering of cut panels prior to sewing. (03 marks)
- (d) Describe the Importance of placing notch marks and inserting drill marks to the cut panels. (03 marks)
- (Q5) (a) Briefly discuss the historical developments of the production systems, that are used for apparel manufacturing. You may use the concept of division of labour as the key parameter to write your answer. (07 marks)
- (b) Explain the concept of the progressive bundle system used in apparel manufacturing. Write the advantages of progressive bundle system over the conventional bundle system in apparel manufacturing. (08 marks)
- (Q6) (a) Describe the concept of "Make Through System" of garment manufacture. (04 marks)
- (b) Explain why the above system is widely used in sample making. (04 marks)
- (c) Compare the Toyota Production System and Kanban Production System in all aspects. (07 marks)
- (Q7) (a) Write a comprehensive note on the alternative methods of garment assembly. (08 marks)
- (b) Compare and contrast the above mentioned methods against sewing. (07 marks)
- (Q8) Write down short notes on following topics.
- (a) Purposes of under pressing and final pressing. (05 marks)
- (b) Advantages of enzyme washing over the stone washing. (05 marks)
- (c) Functions of different types of packaging (05 marks)