

THE OPEN UNIVERSITY OF SRI LANKA  
DEPARTMENT OF TEXTILE AND APPAREL TECHNOLOGY  
DIPLOMA IN INDUSTRIAL STUDIES



TTI4238 - GARMENT MANUFACTURE

FINAL EXAMINATION - 2008/2009

061

DURATION: THREE (03) HOURS

DATE: 07<sup>th</sup> April 2009

TIME: 0930 TO 1230 HOURS

Total number of questions = 09

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 nine (Q9) carry fifteen (15) marks each.

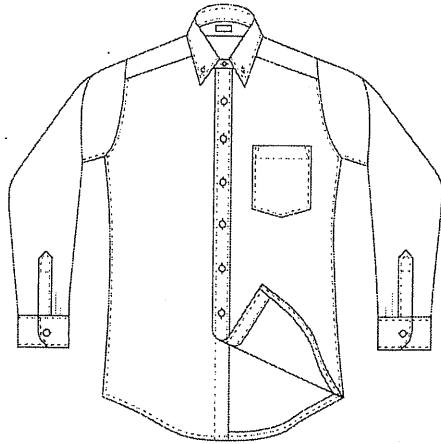
**Compulsory Question**

- (Q1) (a) "Correct ply tension of a spread is very important to produce high quality garments". Briefly explain what happens if a spread is laid with inappropriate tension? (04 marks)
- (b) Explain why "rolled" form of open fabric and tubular knitted fabric packages are more popular than other forms of fabric packages in the garment industry? (04 marks)
- (c) Write down two (02) forms of power, which could be used for material handling in a sewing department. (02 marks)
- (d) What details/information are required to do a proper operational break down? (03 marks)
- (e) Explain why operational break down is important in garment manufacturing. (03 marks)
- (f) Write down three (03) parameters of fusing process. (03 marks)
- (g) Write down two (02) advantages of under pressing? (02 marks)
- (h) List two (02) main types of labels, which are used in garments. (02 marks)
- (i) Write down two (02) types packing materials, which are widely used in the apparel industry. (02 marks)

**Answer any five (05) from the following eight (08) questions**

- (Q2) (a) What are the factors, which govern the size of a bundle in garment manufacturing? (05 marks)
- (b) "Bundles should be presented with certain information to the sewing department". Giving suitable examples, briefly explain the importance of including such information in the bundles. (06 marks)
- (c) Write down the nature of the bundles in conventional bundle system and progressive bundle system. (04 marks)
- (Q3) (a) "Ineffective quality controlling in the cutting department raises many problems". Briefly explain this statement by giving suitable examples. (06 marks)
- (b) Write a comprehensive note on the "computer control cutting of fabrics", briefly explaining its process, advantages and disadvantages. (09 marks)
- (Q4) (a) Briefly explain, why is division of labour widely used in the garment industry. (03 marks)
- (b) Write a short note on the advantages and disadvantages of the division of labour. (08 marks)
- (c) What do you mean by "Make Through System" of garment manufacturing? (04 marks)
- (Q5) (a) Briefly explain the important features of "Toyota Sewing System" of garment manufacturing. (10 marks)
- (b) What are the main advantages and disadvantages of the above mentioned system? (05 marks)

(Q6)



- (a) Write down the style description for the given shirt. (05 marks)
- (b) Prepare the operational break down for the left front panel (including the front placket and the pocket) and allocate suitable sewing machines and equipment for each operation. (10 marks)

(Q7) Write down the short notes on following topics.

- (a) Fusing problems in garment manufacturing (06 marks)
- (b) Functions of the moulding process in garment manufacturing (04 marks)
- (c) Purpose of final pressing (05 marks)

(Q8) (a) Briefly explain the terms “stone washing” and “enzyme washing”.

(08 marks)

(b) Write down the advantages of enzyme washing over the use of pumice stones.

(07 marks)

(Q9) Write down short notes on following topics.

- (a) Characteristics of packing materials used in garment industry (05 marks)
- (b) Merchandising function of packaging (05 marks)
- (c) Vacuum packing (05 marks)