

The Open University of Sri Lanka
Department of Textile and Apparel Technology
Bachelor of Industrial Studies (Apparel Production & Management)
Final Examination-2013/2014
TTI5145-Foundation Garments
Duration- 3 Hours



Date: 05th August 2014

Time: 0930-1230hrs

Instructions:

Total number of questions: 08

Answer **six (06)** questions only. Each question carries 100 marks.

- Q1. (a)** According to the definition of foundation garments, briefly explain how the following foundation garments are fulfill the requirements given in the definition.
- (i) Men's vests
 - (ii) Bra/brassiere
 - (iii) Bikini
 - (iv) Girdle (40 marks)
- (b)** Briefly explain why do people wear cloths? (20 marks)
- (c)** "Some foundation garments fulfill the Body shaping and Retaining functions". Briefly explain this statement with giving three (03) suitable examples. (40 marks)
- Q2. (a)** "Protection and comfort are main physiological requirements of foundation garments." Briefly explain how following foundation garments can be manufactured to fulfill the above mentioned requirements.
 You may consider the material selection and fabric/garment construction under the various environmental conditions for the protection and comfort of foundation garments.
- (i) Undergarments (ii) Sleepwear (iii) Swim wear (30 marks)
- (b)** What do you understand by "Psychological requirements" of foundation garments?
 You may use some examples to answer for this question. (30 marks)
- (c)** What types of serviceability and durability functions that you would expect from the following foundation garments?
- (i) Men's vests (ii) Swim wear (iii) Corset (iv) Stockings (40 marks)

- Q3. (a)** Differentiate “Full slip” and “Half slip” petticoats with giving two (02) examples for each type and explain their features using suitable sketches. (30 marks)
- (b)** Name the important body measurements to construct men’s undergarments and illustrate them on a male body sketch. (30 marks)
- (c)** Briefly explain any four (04) style variations of brassieres using suitable examples and give the wearing purpose of each of them. (40 marks)
- Q4. (a)** Write a short note on “Corset” and give its wearing purposes. (30 marks)
- (b)** Thermal under wear is normally used for cold climates. Write a short note about thermal underwear with specifying following factors.
- (i) Best layering system of thermal under wear with three layers
 - (ii) Usual garment features
 - (iii) Garment properties and characteristics expected
 - (iv) Most suitable materials to make fabrics (40 marks)
- (c)** Give any six (06) body measurements that you would require to construct long sleeve ladies night dress and illustrate how do you take them from a body. You may draw a sketch for this. (30 marks)
- Q5. (a)** Elastomeric yarns are available in four types. Briefly explain these four (04) types and indicate their applications in foundation garments. (40 marks)
- (b)** Briefly explain the function of cup seaming machine used in foundation garment manufacturing. (40 marks)
- (c)** Draw a sketch of a half slip petticoat and give its operational break down with the required machinaries. (20 marks)
- Q6. (a)** What is moulding technique?
Why is it important in manufacturing foundation garments? (30 marks)
- (b)** Write a short note on “Garment welding” using following headings.
- (i) What is it? (ii) Welding technique (iii) Suitable materials
 - (iv) Advantages and disadvantages compared to conventional sewing method. (40 marks)

- (c) Briefly explain the “High frequency welding technique” used in foundation garment industry. (30 marks)
- Q7. (a)** Today, 4- point system is usually used as a fabric defect evaluation system in Sri Lankan garment industry. Briefly explain the method of evaluating a fabric roll by 4-point system. (30 marks)
- (b) Stretchable fabrics are used heavily in Sri Lankan garment industry today. Briefly explain what do you understand by “Power stretch” and “Comfort stretch”? (30 marks)
- (c) Briefly explain the “Bowing” and “Skewing” effects in woven and knitted fabrics used in garment industry. (40 marks)
- Q8. (a)** Briefly explain any three (03) defects that can be happened during cutting process and give possible causes for each of the defect. (30 marks)
- (b) Briefly explain any three (03) different categories of defects occurred during sewing process and give possible causes for each of them. (30 marks)
- (c) Briefly explain any five (05) quality checking points of the given brassiere to do the final inspection. (40 marks)