

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



Study Programme	: Bachelor of Industrial Studies Honours
Name of the Examination	: Final Examination
Course Code and Title	: TAI4243 Foundation Garments
Academic Year	: 2023/24
Date	: 03 rd February 2025
Time	: 13:30 - 16:30hrs
Duration	: 3 hours

General Instructions

1. Read all instructions carefully before answering the questions.
2. This is a Closed Book Test (CBT).
3. Write down your Index Number in all the pages of answer scripts.
4. This question paper consists of eight (08) questions in three (03) pages.
5. Answer the question one (Q1), which is compulsory and any five (05) questions from Question 02 to 08. Question one (Q1) carries 25 marks and questions two (Q2) to eight (Q8) carry 15 marks each.
6. Do not write answers to the additional questions.
7. Answers for each question should commence from a new page. If a question has many parts, all the parts should be answered in the chronological order under the same question.
8. Write down the answered question numbers in the cover page of the answer book.
9. Answers should be in clear handwriting.
10. Do not use red colour pens to write the answers.

Compulsory question(Answer all questions in Q1)

(Q1)

- (a) Name three (03) main categories of foundation garments. (03 Marks)
- (b) What type of underwear did men wear in ancient Rome? (02 Marks)
- (c) What type of clothing did women wear in the 12th century? (02 Marks)
- (d) What are the two types of petticoats worn underneath outer garments? (02 Marks)
- (e) What do you understand by “Air-covered yarns”? (03Marks)
- (f) State four (04) accessories that are used in foundation garments. (04 Marks)
- (g) State four (04) different fabric inspection systems. (04 Marks)
- (h) Why is quality evaluation important at stitched places? (02 Marks)
- (i) State three (03) defects that can be generated during the cutting process of fabric panels. (03 Marks)

Answer any five (05) questions from question two (Q2) to eight (Q8)

(Q2) Write short notes on followings.

- (i) Protection and Comfort in Intimate Apparel. (05 Marks)
- (ii) Hygiene and Medical Aspects of Intimate Apparel. (05 Marks)
- (iii) Psychological Requirements of Intimate Apparel. (05 Marks)

(Q3)

- (i) Differentiate “Men’s lower body underwear” and “Men’s upper body underwear”. (06 Marks)
- (ii) Briefly explain the different style variations in brassieres. (04 Marks)
- (iii) What is a girdle? (02 Marks)
- (iv) How are girdles classified? (03 Marks)

(Q4)

- (i) Discuss the importance of comfort in nightwear design. (06 Marks)
- (ii) State four (04) style variations of nightdresses. (04 Marks)
- (iii) What are the required measurements to draft the pattern for a basic nightdress? (05 Marks)

(Q5)

- (i) Briefly describe microfibrines and list three (03) applications. (07 Marks)
(ii) With the aid of a suitable diagram, describe the mechanism of a cup-seaming machine. (08 Marks)

(Q6)

- (i) What is operational breakdown in the manufacturing of foundation garments, and why is it important? (05 Marks)
(ii) Briefly describe moulding that is used in textile. (06 Marks)
(iii) State four (04) advantages of the welding process used in the manufacturing of foundation garments. (04 Marks)

(Q7)

- (i) Why is quality important in the garment manufacturing industry? (06 Marks)
(ii) Differentiate "Total Quality Management" and "Quality Assurance". (06 Marks)
(iii) State three (03) disadvantages of final inspection that is done after the completion of the manufacturing process. (03 Marks)

(Q8)

- (i) During fabric inspection, the following defects were uncounted in a fabric roll.

- 3 defects up to 2 inches
- 4 defects over 2 inches but less than 4 inches
- 2 defects over 4 inches up to 6 inches
- 2 holes with dimensions over 1 inch

The fabric roll is 150 yards long and 48 inches wide, and the acceptance criteria is 40 points per 100 square yards. Considering 4 point system, check whether the fabric roll is acceptable or rejected. Justify your answer. (06 Marks)

- (ii) What is the primary purpose of fusible interlining in garments? (03 Marks)
(iii) Briefly explain the testing procedure that is used to evaluate fusible interlining in the apparel industry. (06 Marks)