

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



Study Programme	: Bachelor of Science Honours in Engineering / Bachelor of Industrial Studies Honours
Name of the Examination	: Final Examination
Course Code and Title	: TAX4540 Garment Manufacture
Academic Year	: 2024/25
Date	: 09 th March 2026
Time	: 1330-1630h
Duration	: 3 hours

General instructions

1. Read all instructions carefully before answering the questions.
2. This question paper consists of **Eight (8)** questions in **three (3)** pages.
3. Write down your Index Number on all the pages of the answer scripts.
4. Answer question one (Q1), which is compulsory and five (05) more questions from Q2 to Q8. Question one (Q1) carries 25 marks, and questions two (Q2) to eight (Q8) carry fifteen (15) marks each.
5. Answers to each question should commence on a new page. If a question has many parts, all the parts should be answered in chronological order under the same question.
6. Write down the answered question numbers in the answer book.
7. Answers should be in clear handwriting.
8. This is a Closed Book Test (CBT).

Compulsory Question

Question 01

- a) Name four (04) main objectives of cutting in garment production. (04 marks)
- b) State four (04) reasons why operational breakdowns are important in garment manufacturing. (04 marks)
- c) Explain the function of the moulding process in fabric manipulation. (03 marks)
- d) Write down five (05) international care labelling symbols with their meanings. (05 marks)

- e) Name two (02) garment washing techniques used to obtain special effects for garments. (02 marks)
- f) List out four (04) properties and characteristics of a good packing material. (04 marks)
- g) State three (03) safety issues commonly found in garment manufacturing plants. (03 marks)

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

Question 02

- a) Describe the following terms related to the garment manufacturing process.
 - i. Fabric Spreading
 - ii. Fabric splicing
 - iii. Cut panel Bundling
 - iv. Patrol inspection in the cutting department
 - v. Staple and Styled garment products(05 marks)
- b) List five (5) cutting tools and briefly explain two advantages and two disadvantages of each. (10 marks)

Question 03

Describe the operational principles, advantages, and disadvantages of the following garment production systems.

- a) Progressive Bundle System (05 marks)
- b) Toyota Sewing System (05 marks)
- c) Conventional Bundle System (05 marks)

Question 04

- a) Describe the process of preparing a fused shirt collar using fusible interlining. Use neat diagrams where necessary. (09 marks)
- b) Explain three (03) common fusing problems and their possible causes. (06 marks)

Question 05

Differentiate the following pairs by explaining the principles and advantages of each process.

- a) General washing process and Special washing process (05 marks)
- b) Care label and Content label (05 marks)
- c) Screen printing and Roller printing (05 marks)

Question 06

- a) What do you mean by "Soiled Garment Washing" ? (04 marks)
- b) Name four (04) types of stains commonly found on grey fabrics and finished or used garments. (02 marks)
- c) Describe three (03) suitable methods used to remove stains from grey fabrics, giving reasons for the selection of each method. (09 marks)

Question 07

- a) Describe the two (02) main functions of packaging in garment manufacturing. (06 marks)
- b) Describe three (03) types of packing used in garments. (09 marks)

Question 08

- a) (i) State two (02) forms used for storing piece goods in the garment industry. (02 marks)
- (ii) Write down which form is most widely used and why? (01 marks)
- (iii) Explain the advantages of the most widely used form you mentioned above. (01 marks)
- b) What do you mean by "Occupational Safety" in a factory? (03 marks)
- c) Briefly explain four (04) basic safety precautions that should be taken in a garment manufacturing factory. (08 marks)