

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



Study Programme	: Bachelor of Science Honours in Engineering
Name of the Examination	: Final Examination
Course Code and Title	: TAX4462 Pattern Development
Academic Year	: 2024/2025
Date	: 01 st March 2026
Time	: 1330-1630 hrs
Duration	: 3 hours

General Instructions

1. Read all instructions carefully before answering the questions.
2. Write down your Index Number on all pages of the answer scripts
3. This question paper consists of seven (07) questions on four (04) pages.
4. Answer **any five (05) questions**.
5. All Questions carries 20 marks each.
6. Answers for 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.
7. Write down the answered question numbers in the space provided on the cover page of the answer book.
8. Answers should be in clear handwriting.
9. Do not use red colour pens to write the answers.
10. This is a Closed Book Test (CBT).

Answer any five (5) questions from the following seven (7) questions.

Question 01

- (a) Explain three (3) main requirements to construct patterns. (3 Marks)
- (b) Explain how a pattern is constructed in the method of pattern manipulation. (5 Marks)
- (c) State how a female figure should prepare for taking body measurements. (3 Marks)
- (d) Write three (3) examples of horizontal girth measurements and explain how they are taken from a female figure. (9 Marks)

Question 02

- (a) Draw a front view of a basic bodice block and explain the uses of darts, if any. (2 Marks)
- (b) With the help of clear sketches, explain the method of constructing the pattern sketched in part (a). (14 Marks)
- (c) With the help of the basic bodice front pattern constructed in part (b), explain the steps to construct front bodice patterns for the blouse style shown in the following sketch. (04 Marks)

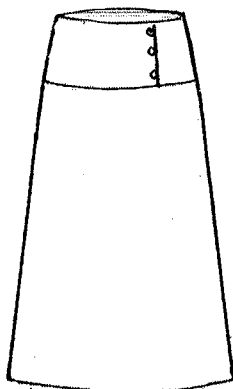


Question 03

- (a) A pattern maker has received the following measurements from a lady requesting the drafted patterns set for a basic skirt. With the help of the measurements given, using rough sketches, explain the method of constructing basic front and back skirt patterns. (12 Marks)

Measurement	cm
Waist	74
Hip	98
Waist to hip	22
Skirt length	66
Front dart length	11.5
Back dart lengths	13 & 15
Dart width	2

- (b) With the help of the basic front skirt pattern, you drafted in part (a), explain the steps to construct the front pattern of the skirt style shown below. (8 Marks)

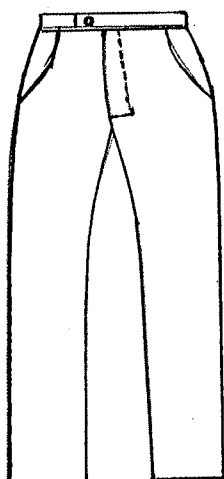


Question 04

- (a) Draw a production sketch of a gent's tunic shirt. (2 Marks)
- (b) Explain the construction steps to develop the front pattern for the shirt style you sketched in part (a). (18 Marks)

Question 05

The following figure shows the front view of a trouser style.



- (a) What are the style features of this trouser? (3 Marks)
- (b) With clear diagrams explain the method of taking all the required measurements to construct patterns for the trouser. (6 Marks)
- (c) With the help of rough sketches explain the construction steps to develop the front pattern for the above trouser. (11 Marks)

Question 06

A baby frock with front yoke decorated with gathers is shown in the following figure. With the help of the given measurements, explain the method of constructing the front pattern and the front yoke pattern for this frock. (20 Marks)



Measurement chart

Measurement	In centimetres
Shoulder	26
Front / Back Waist length	28
Bust (Chest)	64
Front / back width	24
Waist line	54
Length of the dress	30
Depth of scye	12.5
Neck width	5
Front neck depth	6.5

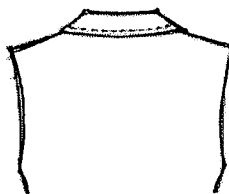
Assume any other required measurements.

Question 07

The following figure shows the front and back views of a collar style.



Front



Back

If the basic front and back bodice patterns are available, explain the method of constructing the pattern for the collar style shown in the above figure. (20 Marks)