

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	: TAI4442 Advanced Pattern Construction
Academic Year	: 2024/2025
Date	: 31 st January 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 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

Following figure (1) shows the front view of a blouse style with panel lines at the front and the figure (2) shows the front pattern of a basic bodice block.

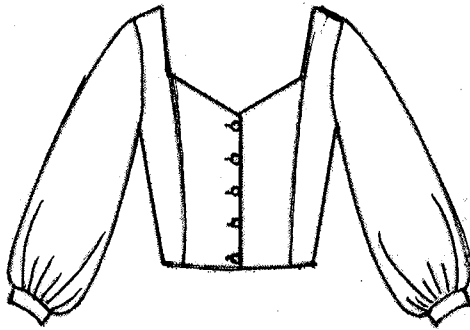


Figure (1)

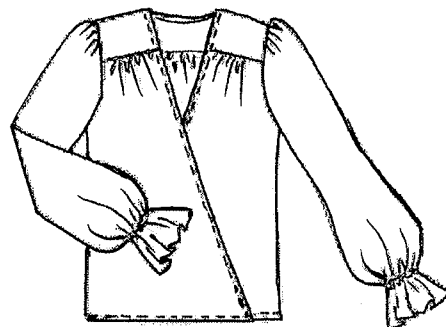


Figure (2)

- (a) Explain, with the aid of rough sketches, how the front bodice patterns of the blouse style shown in Figure (1) are developed from the front basic bodice pattern shown in Figure (2). (12 Marks)
- (b) Identify the features of the sleeve style shown in Figure (1) and write the construction steps to develop the pattern for this sleeve style with the help of the basic sleeve pattern. (08 Marks)

Question 02

The front view of a blouse style featuring a shoulder yoke is shown in the following figure. The left and right front panels cross over each other at the centre front line. Gathers are visible along the front shoulder yoke seam line.

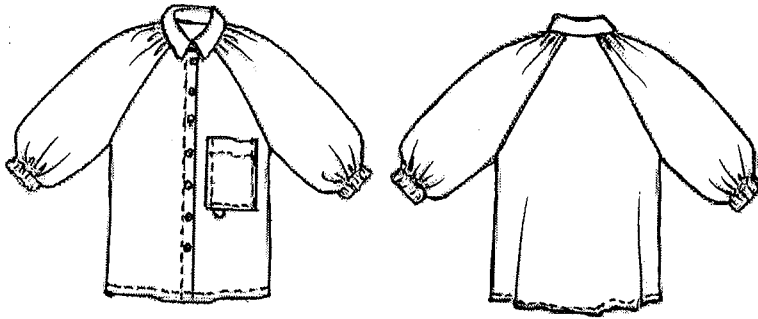


If the basic front bodice pattern is available, explain the construction steps used to develop the following patterns for the given style. (20 Marks)

- (a) Front yoke pattern
(b) Front bodice pattern.

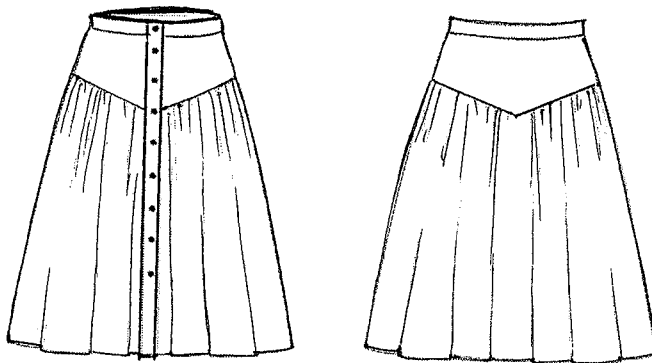
Question 03

- (a) The sleeve style illustrated in the diagram below features gather at the neckline. Using the basic front and back bodice patterns along with the basic sleeve pattern, explain the procedure for constructing the pattern for the sleeve style shown. (20 Marks)

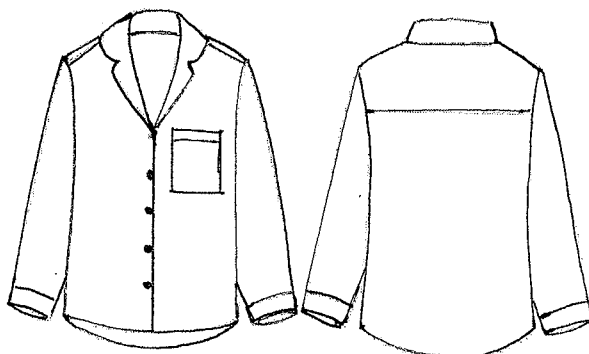
**Question 04**

- () The following is a production sketch of a skirt with a yoke and a front button opening. The skirt features gather along the yoke seam line.

If the basic skirt front and back patterns are provided, explain the construction steps to develop all the required patterns for the given skirt style. (20 Marks)

**Question 05**

- () The following is a gent's shirt style. If the front and back shirt patterns are provided,, explain the method of constructing the pattern for the collar style shown in the figure. (20 Marks)



Question 06

- (a) Figure (1) shows a rough sketch of a basic bodice back pattern drawn to size 12. Explain how this pattern is graded to size 14 considering the master pattern is as size 12. All the required measurements in centimeters are given in the following table (1). (20 Marks)

Table (1)

Size	12	14
Bust	88	92
Waist	66	70
Back width	34.4	35.4
Shoulder length	12.25	12.5
Neck width	7.25	7.5
Nape to waist	39.5	40
Shoulder to waist	39.5	40.2
Armhole depth	21	21.5
Shoulder dart length	5.5	6



Figure 1

Question 07

- (a) Draw a production sketch of a gent's pleated trouser. (02 Marks)
- (b) With the help of the basic front and back trouser patterns, explain the construction method for developing the front and back patterns of the trouser style you sketched in part (a). (18 Marks)