

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



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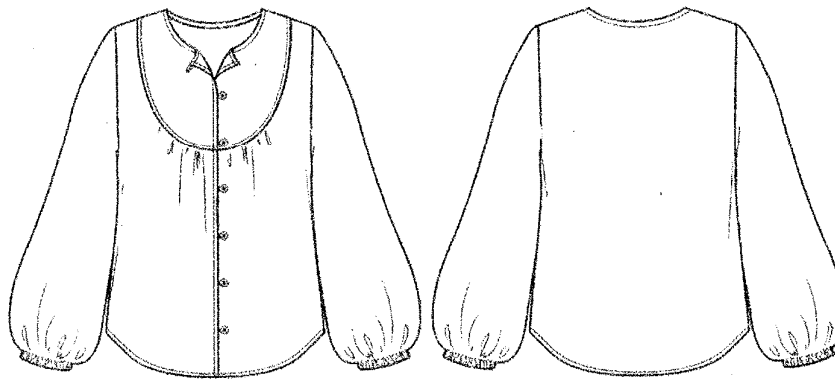
Study Programme	: Bachelor of Industrial Studies Honours
Name of the Examination	: Final Examination
Course Code and Title	: TAI4442 Advanced Pattern Construction
Academic Year	: 2023/2024
Date	: 16 th February 2025
Time	: 1330-1630 hrs
Duration	: 3 hours

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.

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

- (1) (a) Draw a rough sketch of a front pattern of a basic bodice block including the shoulder dart and the waist dart. (2 Marks)
- (b) Explain the steps involved in transferring the shoulder dart from your sketch in part (a) to the side seam. (5 Marks)
- (c) With the help of the pattern you developed in part (b), explain the steps required to construct a pattern for a Peter Pan collar. (13 Marks)
- (2) Following is a production sketch of a lady's blouse style.



- (a) Draw a rough sketch of the front and back patterns of the basic bodice blocks and write the construction steps to develop front and back bodice patterns for the blouse style shown above. (12 Marks)
- (b) Explain the construction steps required to develop the pattern for the sleeve style, starting from the basic sleeve pattern. (8 Marks)

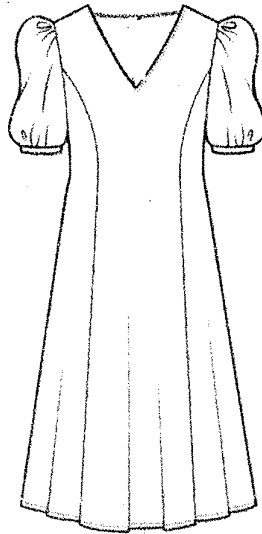
- (3) Explain how the basic bodice front pattern and the basic sleeve pattern are used to construct the following patterns for the dress style shown in the sketch.

(a) Front mid and side panels

(12 Marks)

(b) Sleeve pattern

(8 Marks)

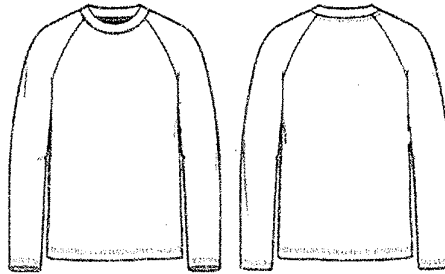


- (4) The following table shows the body measurements required to construct patterns for the basic skirt. Using the given measurements for sizes 12, size 14, and size 16, explain the grading method to develop the basic skirt front pattern for size 12 and size 16, considering size 14 as the master pattern.

(20 Marks)

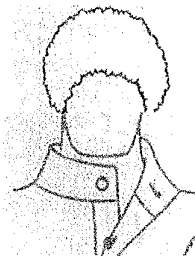
Measurement (cm)	Size 12	Size 14	Size 16
Waist	66	70	74
Hip	94	98	102
Waist to hip	20	21	22
Skirt length	71	72	73
Width of bust prominence	19	19.4	19.8

- (5) Following is a production sketch of a gent's shirt style.



With the help of rough sketches of the front and back basic shirt patterns and the basic sleeve pattern, explain the steps to construct the pattern for the sleeve style shown in the above figure. (20 Marks)

- (6) Following is a production sketch of a gent's shirt collar style.



Outline the steps to construct the pattern for the collar style shown in the above figure.

(20 Marks)

- (7) The trouser style shown below is a pleated trouser with a back yoke and an elastic attached to fit the hemline. Draw rough sketches of front and back basic trouser patterns and explain the steps to construct all the required patterns for the trouser style given in the following figure. (20 Marks)

