

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



101

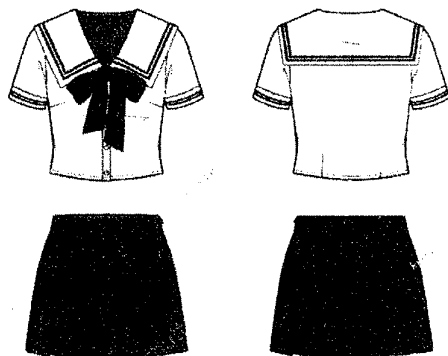
Study Programme	: Bachelor of Industrial Studies Honours
Name of the Examination	: Final Examination
Course Code and Title	: TAI4442 Advanced Pattern Construction
Academic Year	: 2022/2023
Date	: 21 st February 2024
Time	: 0930-1230 hrs
Duration	: 3 hours

General Instructions

1. Read all instructions carefully before answering the questions.
 2. This question paper consists of **eight (8)** questions in **four (4)** pages.
 3. Answer six (6) questions including the question 1, which is compulsory.
 4. Answer for each question should be commenced from a new page.
 6. Answers should be in clear handwriting.
 7. Do not use red colour pens.
 8. Write the index number in each answer script.
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Compulsory Question (25 Marks)

- (1) The following sketch shows front and back views of a girl's nursery uniform. Answer questions (a) to (c), referring to the sketch shown.



- (a) Name the styling features of the following features shown in the sketch.

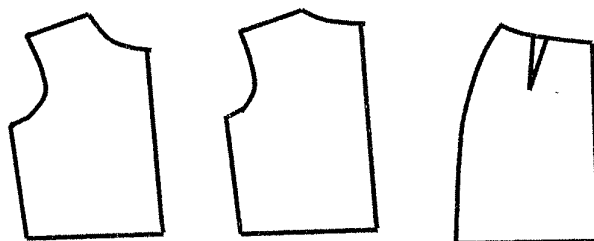
(4 Marks)

- (i) Collar
- (ii) Front opening of the blouse
- (iii) Pleat of the skirt
- (iv) Sleeve

- (b) What are the measurements required to construct patterns for the garment style shown in the sketch.

(5 Marks)

- (c) Assume that you are having the following basic patterns of a girl. (children's wear)



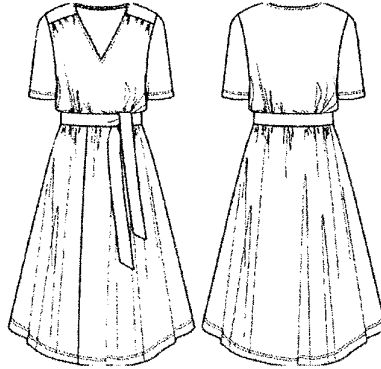
Front bodice pattern Back bodice pattern Front skirt pattern

With the help of the above basic patterns, explain the steps required for constructing the patterns given below.

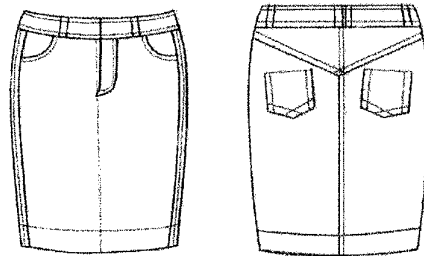
- (i) Collar pattern (8 Marks)
- (ii) Front patterns for the skirt (8 Marks)

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

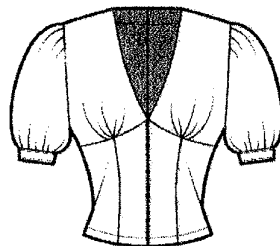
- (2) The figure shown below is front and back views of a dress style attaching the bodice part and the skirt part at the actual waistline.



- (a) Name all the pattern pieces required to be constructed by the pattern maker to mass scale manufacturing of the above dress. (3 Marks)
- (b) With rough sketches explain the method of constructing all the front patterns you mentioned in part (a). Assume that you have the basic front bodice pattern and the basic front skirt pattern. (12 Marks)
- (3) If the basic skirt front and back patterns are provided, explain the construction steps to develop all the required patterns for the following skirt style. (15 Marks)

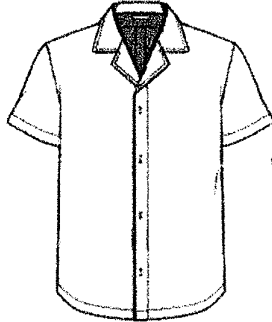


- (4) A blouse style with a front yoke is shown in the following sketch.



With rough sketches explain how the basic bodice front pattern is used to develop the necessary front bodice patterns of this style. (15 Marks)

- (5) The following is a gent's casual shirt style. If the front pattern of the casual shirt is provided, explain the method of constructing the pattern for the collar style shown in the figure. (15 Marks)



- (6) (a) Draw front and back views of a gent's pleated trouser. (3 Marks)
 (b) What are the measurements required to construct patterns for the trouser style you sketched in part (a). (3 Marks)
 (c) If the basic trouser front pattern is provided, explain the construction steps required to construct the front pattern of the pleated trouser you sketched in part (a). (14 Marks)
- (7) Draw the production sketches of the following two (2) styles of women's sleeves and explain the construction steps to develop patterns for each style. You may assume that you are provided with the basic sleeve pattern. (7 Marks)
 (a) Puff sleeve (7 Marks)
 (b) Very flared sleeve (8 Marks)
- (8) Draw rough sketches of basic skirt front and back patterns and explain how they are graded to size 14 considering the master pattern is as size 12. All the required measurements are given in the following table. (15 Marks)

Measurements (cm)	Size 12	Size 14
Waist	64	68
Hip	92	96
Waist to hip	22	23
Skirt length	68	69
Width of bust prominence	18	18.4