

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



Study Programme	: Bachelor of Technology Honours in Engineering
Name of the Examination	: Final Examination
Course Code and Title	: TAX4462 Pattern Development
Academic Year	: 2020/2021
Date	: 05 th February 2022
Time	: 1400-1700 hrs
Duration	: 3 hours

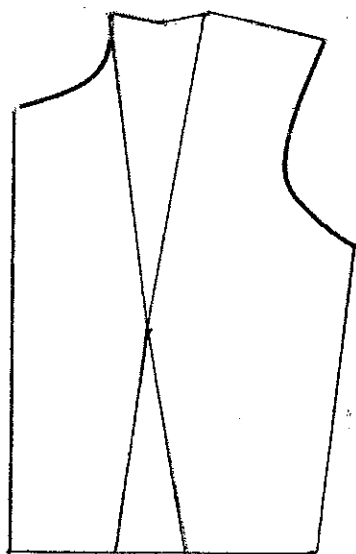
General Instructions

1. Read all instructions carefully before answering the questions.
 2. This question paper consists of **seven (7)** questions in **four (4)** pages.
 3. Answer five (5) questions including the question 1, which is compulsory. All questions carry equal marks.
 4. Answer for each question should be commenced from a new page.
 5. This is a Closed Book Test (CBT).
 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

- (1) Following is a mini scaled front pattern of a basic bodice block drafted to size 12. With the help of the measurement chart given below, clearly explain how to grade the front bodice block pattern to size 14 from size 12 master pattern. (20 Marks)

Bodice block front pattern



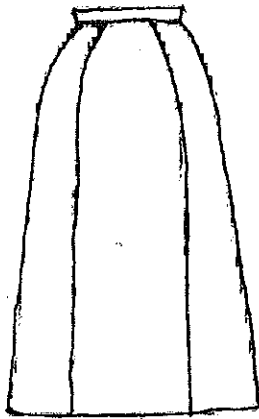
Measurement chart (cm)

Size	12	14
Bust	88	92
Waist	66	70
Back width	34.4	35.4
Across chest	32.6	34
Shoulder length	12.25	12.5
Neck width	7.25	7.5
Dart	7	7.6
Nape to waist	39.5	40
Shoulder to waist	39.5	40.2
Armhole depth	21	21.5
Width of bust prominence	19	19.4

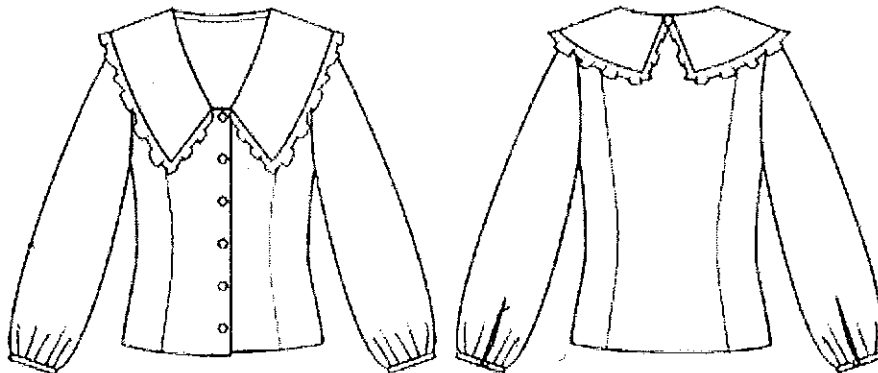
Answer any four (4) questions from the following (6) questions

- (2) (a) Briefly explain the two (2) main methods of pattern construction. (4 Marks)
- (b) Write three (3) examples each for horizontal and vertical body measurements. With rough sketches clearly explain how to take the measurements you mentioned. (6 Marks)
- (c) Explain with examples the importance of giving pattern specifications with the constructed patterns. (4 Marks)
- (d) Explain the applications of six (6) basic tools, which are widely used by pattern makers when constructing patterns. (6 Marks)

- (3) (a) Explain with rough sketches the method of constructing the front pattern of a basic skirt. (10 Marks)
- (b) Following is a front view of a skirt style having 3 panel lines. Explain pattern construction for the front skirt from the basic pattern developed in part (a). (10 Marks)



- (4) (a) Explain the method of drafting the basic front and back patterns for the bodice block. (12 Marks)
- (b) Explain how you develop the pattern for the collar shown below from the drafted basic pattern. (8 Marks)

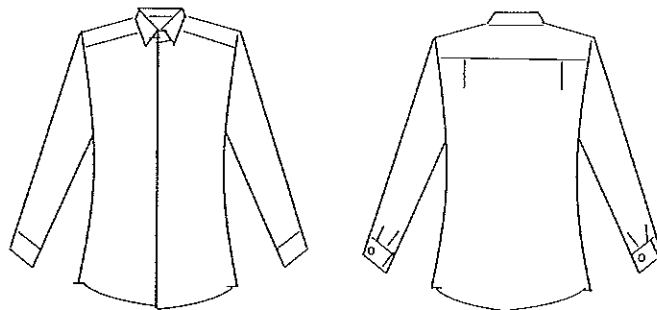


- (5) With the help of the front and back armhole curves of the basic bodice patterns, explain the pattern construction for the sleeve style shown in the figure below. Assume that the basic front and back bodice patterns are provided.



(20 Marks)

- (6) Following is a production sketch of a tunic shirt.



With rough sketches explain the method of construction for the following patterns for the shirt.

(a) Back patterns

(12 Marks)

(b) Sleeve patterns

(8 Marks)

- (7) Following is the back view of a trouser style. Explain in detail the method of constructing the back pattern for the trouser.

(20 Marks)

