

CS/B.TECH/APM/ODD SEM/SEM-3/APM-302/2016-17



**MAULANA ABUL KALAM AZAD UNIVERSITY OF
TECHNOLOGY, WEST BENGAL**

Paper Code : APM-302

APPAREL PRODUCTION – I

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own
words as far as practicable.*

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following :

10 × 1 = 10

- i) 'Paithani' is the saree of

- a) Andhra Pradesh b) Tamil Nadu
c) Maharashtra d) Orissa.

- ii) Traditional dress for Kashmiri women is

- a) saree ~~b) mekhla~~
c) ghaghra-choli d) none of these.

- iii) Perfect body shape for women is
- a) V-shape
 - b) I-shape
 - c) hourglass shape
 - d) bee shape.
- iv) When a style becomes fashion very quickly, reaches the peak of popularity and quickly gets rejected it is called
- ☒ a) Fad
 - b) Trend
 - c) Classic
 - d) Contemporary.
- v) Ticket Number of Sewing Thread indicates
- a) Price
 - ☒ b) Thickness
 - c) Elasticity
 - d) Length.
- vi) French seam is a special type of
- a) Lapped Seam
 - ☒ b) Super Imposed Seam
 - c) Bound Seam
 - d) Flat Seam.
- vii) If Seam Length is 30 cm and total 1 meter long needle thread is used to stitch 3 pieces, calculate the % of Contraction (ignore wastage %).
- a) 30%
 - b) 3%
 - c) 1%
 - ☒ d) 10%.
- viii) Which of the following Driving Mechanisms is used for Needle Bar in case of Industrial Lockstitch Machines ?
- ☒ a) Link Mechanism
 - b) Gear Mechanism
 - c) Belt Drive
 - d) Epicyclical Gear.

- ix) Seam allowance for all faced areas is
- a) $3/4^{\text{th}}$ inch b) $3/8^{\text{th}}$ inch
~~c) $1/4^{\text{th}}$ inch~~ d) $1/2$ inch.
- x) Which of the following is not a component ?
- a) buttons b) pocket
~~c) labels~~ d) zipper.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following : $3 \times 5 = 15$

2. Classify apparel based on how it is worn.
3. Mention the 8 types of human figure.
4. What do you mean by Flat Seam ? Explain with a suitable Diagram. Mention why it is not suitable to use for Front to Back joining of a formal Shirt. Mention the applications of Bound Seam. $2 + 2 + 1$
5. What do you mean by the Stroke of Needle Bar in case of SNLS ? Explain the Geometry of Stroke with a suitable diagram. $2 + 3$
6. If Length of Seam = 30 cm, Stitch Length = 3 mm, average machine RPM = 2000, Average production efficiency = 60%. Calculate the number of SNLS machines required to stitch 15,000 pieces in 3 days. (Assume working time per day = 400 Minutes)

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. a) Explain 8-head human anatomy with neat sketch.

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- b) Describe the sequence of taking body measurements for making a shirt. 7 + 8
8. a) State various decorative stitches with figure.
b) Name 3 types of sari weaves each from any 6 states of India. 6 + 9
9. a) What do you mean by Seam Efficiency % ? How it can be calculated ?
b) What is Seam Pucker ? Explain in brief the different methods of the evaluation of Seam Pucker.
c) If Stitch Length = 4 mm, Stitch contraction % = 3%, Thread wastage % = 2%, Average Machine RPM = 4000 and machine efficiency % = 70%, calculate thread consumption in terms of weight. Assume Ticket number (for denier system) = 25. 4 + 6 + 5
10. a) If Length of Seam = 20 CM, Stitch Contraction % = 4%, Average Thread Wastage% = 3%, Needle thread used is 2/60 Denier Polyester Filament Yarn. Calculate the number of pieces can be stitched with available quantity of Needle thread as 2 KG.
b) If RPM = 4000 and Stroke of Needle Bar = 4 cm, calculate the vertical speed of the Needle Bar.
c) What are the major parts of an Industrial SNLS machine ? Mention in brief the function of each of those parts. 4 + 3 + 8
- a) What is a dart ? 8
b) What are the types of dart manipulation ? 5 + 10