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R 3365

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2007.

Seventh Semester

Textile Technology (Fashion Technology)

FT 1010 — PRODUCT ENGINEERING AND PLANT LAY OUT

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Mention the points to be considered for deciding seam allowance in garment manufacture.
2. What is meant by industrial pattern?
3. What is meant by standard data How does it influence precosting?
4. Define the term "Scheduling".
5. Highlight the importance of stepped lay.
6. Give the causes for bowing defect.
7. Give the benefits of grid chart.
8. What is the significance of travel chart?
9. How is the efficiency of the sewing operator can be assessed?
10. State the purpose of therblig symbols.

PART B --- (5 × 16 = 80 marks)

11. (a) Explain the detailed drafting procedure for Men's pleated trouser and give the pattern information for the components.

Or

- (b) Explain the draping procedure to be followed for the following components/style with suitable illustration.

(i) Convertible collar

(ii) Circular skirt

(iii) Set in sleeve

12. (a) Classify and explain the apparel production system and justify the suitability of the same for the following styles.

(i) Combo-wear

(ii) Tunic top

(iii) Pant of $\frac{3}{4}$ th length

Or

- (b) Discuss the following with suitable examples.

(i) Role of Industrial Engineering department in apparel industry.

(ii) Manufacturing information system in apparel industry.

13. (a) Explain the quality evaluation procedure for the following departments and suggest suitable remedial measures for control of defects in those departments.

(i) Spreading and cutting

(ii) Sewing

Or

- (b) Prepare the cost sheet for a “ful sleeve ribbed knit shirt” from the following data:

Fabric: 180 GSM Solid dyed interlock.

Measurements

Half Chest	55	cm
Sleeve length	65	cm
Full length	70	cm
Arm hole	26	cm

14. (a) Explain the different types of garment production layout and suggest the suitable layout for the following styles:

- (i) Blazer
- (ii) Knit-Boxer shirts

Or

- (b) Construct a flow process grid chart for woven pleated trouser and mention the appropriate stitches and seam specifications for the same.

15. (a) Explain the following.

- (i) Motion analysis for placket attaching operation
- (ii) Data required for time and motion study.

Or

- (b) Explain the various techniques involved in improving operation methods in sewing and pressing.