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K 4299

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2009.

Seventh Semester

Textile Technology (Fashion Technology)

FT 1010 — PRODUCT ENGINEERING AND PLANT LAYOUT

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Distinguish between drafting and draping techniques.
2. Furnish the specifications for polo neck T-shirt.
3. Define "Splicing" with respect to cutting.
4. What is meant by Standard Data?
5. How do you design bundle ticket for cut components?
6. Define the term "marker". How the marker efficiency can be calculated?
7. What are the different types of plant layout?
8. How can the space required in the sewing department be calculated?
9. What is meant by leveling?
10. How is the operator efficiency determined?

PART B — (5 × 16 = 80 marks)

11. (a) Explain the geometric principles of draping knitted and woven garment styles with neat sketches.

Or

- (b) Explain the drafting procedure for basic bodice block and skirt block with neat sketches.

12. (a) (i) Discuss the various factors influencing scheduling in apparel manufacture. (6)

- (ii) Prepare the schedule from the following data : (10)

- (1) Style — Boy's short shirt
(2) Order quantity — 100 doz pices
(3) Lead time — 60 days
(4) Fabric — Yarn dyed checked fabric-Twill weave
(5) Size assortment ratio — S : M : L : XL = 2 : 2 : 1 : 1

Or

- (b) Design and explain the following production control charts.

- (i) Cutting order and cutting ticket. (8)

- (ii) Bundle ticket. (4)

- (iii) WIP chart. (4)

13. (a) Prepare a cost sheet for an apparel product, explaining the various elements of cost involved.

Or

- (b) Explain the causes and remedies of cutting defects in woven and knitted garments.

14. (a) Develop a grid chart for the following styles :

- (i) Dungarees children's wear.

- (ii) Trouser with multi-pockets.

Or

- (b) Explain the guidelines to be followed in designing a layout for an apparel unit and mention the government regulations on plant layout.

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15. (a) Explain the procedure for conducting method study in cutting and sewing departments.

Or

- (b) Explain the following in detail.
- (i) PMTS
 - (ii) Ergonomics in sewing department.
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