J 1191

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2006.

Seventh Semester

Fashion Technology

GT 043 – PRODUCT ENGINEERING AND PLANT LAYOUT

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define the principle of drafting technique.

2. Enumerate the pattern drafting tools.

3. Enlist the applications of industrial engineering in apparel manufacture.

4. Define manufacturing information system.

5. Enlist the various types of cutting defect in garment manufacture.

6. Define marker efficiency.

7. What are the factors to be considered in plant lay out.

8. What are the characteristics of a good lay out?

9. Mention the steps involved in developing the standard data.

10. Write the advantages of conducting motion analysis.

PART B — (5 × 16 = 80 marks)

11. (i) Enlist the various ways of improving operation methods in sewing department. (4)

(ii) Explain the procedure for conducting workstudy in a garment factory. (12)

12. (a) Explain the drafting procedure for a basic bodice block for women's wear.

Or

(b) Explain the draping procedure for a halter neck garment.

13. (a) Explain the assembly line and make through systems in garment production and mention their advantages and disadvantages.

Or

(b) Develop a scheduling plan to manufacture a polo knitted T shirt from the given data.

Order quantity	-	20,000 pcs
Fabric type	-	Interlock, 220 GSM
Production capacity	-	1500 pcs./day
Lead time	-	45 days.

14. (a) Suggest the methods for improving fabric utilisation in cutting department.

Or

(b) Develop a production grid chart for construction of a children's knitted top.

15. (a) Discuss the various types of plant lay out suitable for garment manufacture and justify their suitability.

Or

(b) Discuss the government regulations on plant layout and give suitable examples.
