M.TECH DEGREE EXAMINATIONS: JANUARY 2011
First Semester
APPAREL TECHNOLOGY & MANAGEMENT
FTY504: Apparel Production Management

Time: Three Hours   **Maximum Marks: 100**

Answer ALL Questions: -
PART A (10 x 2 = 20 Marks)

1. Distinguish between production control and production planning.
2. List the factors that affect the performance of production system.
3. Why do we need proto sample in apparel production?
4. What is the importance of assortment ratio in order requirement?
5. What are the considerations in selection of a process chart?
6. State the merits of unit production system.
7. Explain off loading.
8. What is meant by economic cut quantity?
9. Calculate the marker efficiency from the following?
10. Marker length - 5m   Marker width - 5m
    (i) Total area of pattern pieces in the marker plan - 16m^2
    (ii) Explain smoothness index in line balancing.

PART B (5 x 16 = 80 Marks)

11. (a) Discuss in detail on controllable and non controllable factors in apparel manufacturing process.

(OR)

(b) Explain the various levels of planning in production. Give an example for each level.

12. (a) Discuss in detail the importance of preparing different types of product samples in an apparel industry.

(OR)

(b) Elaborate on production pre planning functions in an apparel industry.

13. (a) Explain in detail the working principle of unit production system employed in a large scale knit wear industry

(OR)

(b) With a suitable example explain in detail about flow process grid construction.

14. (a) Discuss in detail the various factors influencing the economic cut quantity.

(OR)

(b) Elucidate on types of spreads followed in apparel industry.

15. (a) A single head embroidery machine takes 30 mins to process a job. Efficiency of the embroidery machine is 90% and waste is 20%. The desired output is 600 pieces per week. Consider 48 hours per week. Determine the number of machines required.

(OR)

(b) Write short note on
       (i) Balance delay   (8)
       (ii) Line efficiency   (8)

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