

M.TECH. DEGREE EXAMINATIONS: APRIL / MAY 2010

Second Semester

TEXTILE TECHNOLOGY (FASHION TECHNOLOGY)

FTY507: Apparel Systems Engineering

Time: Three Hours

Maximum marks: 100

Answer ALL Questions

PART A (10 x 2 = 20 Marks)

1. Define Systems Engineering.
2. Differentiate between Production and Productivity.
3. Define Work Study.
4. Why symbols are used in Systems Engineering?
5. Define Motion Study.
6. Give the Objectives of Motion Study.
7. What are the different allowances included in the time study?
8. Define SIMO chart?
9. What do you mean by Line Balancing?
10. What are the important factors to be considered while balancing a production line for an apparel industry?

PART B (5 x 16 = 80 Marks)

11. (a) (i) What are the important strategies that one can follow to improve the productivity? (8)
(ii) Describe the importance of work measurement and its role in controlling the process. (8)

(OR)

- (b) Elaborate on the basic procedure performed in a work Study.

12. (a) (i) With a suitable example Explain a Two Handed Process Chart. (8)
(ii) What are the common symbols and notations used in process charts? (8)

(OR)

- (b) Describe the steps involved in developing a Multiple activity Chart.

13. (a) Describe briefly about the Operational Analysis with a suitable example.

(OR)

- (b) Elaborate on the various Commonly employed Work Measurement Techniques.

14. (a) Elaborate on the factors that affect the Time Study.

(OR)

(b) What are the important Data that are to be present in a Time and Motion study data sheet?

15. (a) Explain the Principles involved in improving cutting operation method.

(OR)

(b) What do you mean by MTM? Elaborate on the same.
