

M.TECH DEGREE EXAMINATIONS: JUNE 2013

Second Semester

TEXTILE TECHNOLOGY

TTX612: Apparel Production Planning and Control

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. What are analyzing and forecasting?
2. Why is operation sequence important with respect to garment production?
3. List the factors you would consider while selecting a plant layout meant for woven garments.
4. Brief on methods of stopwatch timing.
5. What is time study allowance?
6. Why is cutting order necessary to a garment unit?
7. Design a typical bundle ticket with specifications.
8. Define: Time study and motion study.
9. What is leveling?
10. Name the various methods of classifying materials and handling equipment.

PART B (5 x 16 = 80 Marks)

11. a) (i) Explain on the various production systems being used in apparel industry. (10)
(ii) How would you use various principles for choosing a production system? (6)

(OR)

- b) (i) What are the operations required for constructing a striped T shirt and a formal pant? Explain with their operation specifications. (10)
(ii) How would you evaluate a production system? (6)

12. a) Why are flow process grid and charts necessary? Describe about their usefulness with a typical demonstration.

(OR)

- b) (i) Elaborate on line balancing in garment industry with suitable examples. (8)
(ii) Describe about deputizing and supervising. (8)

13. a) (i) Explain on various types of layout with suitable diagram and application in garment industry. (8)
- (ii) How would you determine minimum space requirement for a layout with assumptions of suitable and reasonable parameters? (8)

(OR)

- b) (i) How would you calculate the minimum transport distance? Demonstrate with the assumptions of suitable parameters (8)
- (ii) Formulate a layout for a style of garment. (8)

14. a) (i) Elaborate on several principles of scheduling. (8)
- (ii) How would you prepare scheduling charts for a woven garment industry? Explain with various formats. (8)

(OR)

- b) (i) Write in detail about the sewing and pressing department projection tally. (8)
- (ii) Explain on the various types of control forms with its typical format. (8)

15. a) (i) Describe on a general approach for making time and motion study in a plain T shirt manufacture. (10)
- (ii) What are the specialized material handling equipment related to the apparel industry? Elaborate on them with suitable diagrams and specifications. (6)

(OR)

- b) (i) Give a detailed account on description and characteristics of regular material handling equipment being used in the garment industry. (10)
- (ii) Elaborate on the elements of work cycle. (6)
