

Register Number:.....

M.TECH., DEGREE EXAMINATIONS MAY/JUNE 2013

Third Semester

APPAREL TECHNOLOGY AND MANAGEMENT

FTY610: Lean Manufacture

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10x1=10 Marks)

1. Write the benefits of TQM implementation in the apparel industry?
2. How will you calculate cost of quality? Give an example.
3. What is value stream mapping (VSP)? State their importance.
4. Outline the steps in Quality Planning Roadmap.
5. State the importance of zero defect programme in the lean manufacture.
6. What is AQL? How is it analyzed in apparel industry?
7. Highlight the significance of economic order quantity (EOQ).
8. Draw a sample production kanban card in lean manufacture.
9. Write the applications of six sigma concept in lean manufacture.
10. How will you calculate return on investment in apparel industry?

PART B (5x16=80 Marks)

11. a) With suitable examples discuss in detail on any two lean practice techniques followed in the apparel industry and brief their importance and advantages over conventional practices.

(OR)

- b) (i) Enumerate the control on wastages in the apparel industry to suggest alternative measures to improve quality of goods and practices. (8)
- (ii) Explain how lean manufacture reduces the cost of poor quality. (8)
12. a) (i) Explain in detail about the value stream mapping technique in lean manufacture. (10)
- (ii) Discuss in detail about the critical to quality analysis (CTQ) in lean manufacturing.(6)

(OR)

- b) (i) With necessary data explain the significance of SIPOC in lean manufacture. (6)
(ii) Describe the reduction of process flow and elimination of non-value activities for implementation of lean manufacture. (10)

13. a) Explain the various sampling techniques used for determination of sample size while inspection in the apparel industry.

(OR)

- b) Discuss the implementation and analysis of zero defect programmes in lean manufacturing.

14. a) (i) Discuss in detail on the applications of KANBAN cards for production planning and control in apparel industry. Give suitable examples. (12)

(ii) How will you control inventory through Economic Order Quantity (EOQ)? (4)

(OR)

b) (i) Explain briefly the application of KAIZEN in lean implementation millstones. (8)

(ii) With suitable example explain the lean concepts in inventory control and also highlight their significance in process improvement. (8)

15. a) Discuss in detail on the applications of Six Sigma in product development in apparel industry with suitable examples.

(OR)

b) (i) Explain the role of CAD and CAM in apparel industry for sensing future fashion. (10)

(ii) With suitable data explain the importance of return on investment estimation the apparel industry. (6)
