



Register Number:.....

M.TECH DEGREE EXAMINATIONS: NOV/DEC 2014

(Regulation 2013)

Third Semester

APPAREL TECHNOLOGY

P13FTE205: Lean Manufacture

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. What are the benefits that result from the effective implementation of the 5S system?
2. Highlight the importance of Cost of Poor Quality in terms of improving operation efficiency.
3. Bring out the significance of constructing SIPOC Model in process definition and development.
4. Differentiate Value Adding Activities, Non Value Adding Activities and Necessary Non Value Adding Activities.
5. Differentiate between sampling plan for attributes and variables
6. Outline the procedure for reducing defects using normal distribution.
7. How high inventory levels impact on overhead costs and how Batch process can be used to control inventory levels?
8. Bring out the contribution of Kanban and Kaizen in improving enterprise efficiency.
9. Bring out the path of achieving a quality level of 3.4 defects / million parts in Six Sigma application.
10. Define the following: First time yield, throughput yield and normalized yield.

Answer any FIVE Questions:-

PART B (5 x 16 = 80 Marks)

Q.No:11 is Compulsory

11. Citing a case study evaluate the possibility of using defect distribution and process capability indices in measuring and improving apparel production process.

12. Explain the internal and external factors contributing to Cost of Poor Quality and the measures to be taken for controlling COPQ.
13. Identify and explain CTQ for production activities from spreading to sewing department.
14. Discuss in detail the implementation and analysis of zero defect program in lean manufacture.
15. Explain in detail the application of Kanban cards in tracking the work in progress and movement of inventory.
16. Discuss the ROI for a situation of technology upgradation in spreading and cutting departments of apparel industry.
