

Instructions:

- Q. 1 is compulsory.
- Attempt any **THREE** questions from the remaining questions
- Assume suitable data wherever necessary
- Figures to the right indicate full marks.

Q1	Write short notes on. (Any Four) . a) Competitiveness and Performance Measures b) Value added Manufacturing c) Six Sigma d) 5-S e) Root Cause of a problem	20M
Q2	a) Define World Class Manufacturing and Explain Schonberger and Halls models of world class manufacturing. b) Briefly explain the Theory of Constraints.	10 10
Q3	a) Explain seven basic quality tools. b) Briefly explain the techniques of removing root cause of the problem.	10 10
Q4	a) What is the significance of Performance indicators like POP, TOPP and AMBITE systems? b) What is the role of information system in world class manufacturing?	10 10
Q5	a) Explain Supply Chain Management and the key issues related to it. b) Explain the concept of FMS and Poka Yoke.	10 10
Q6	a) Explain the framework and evolution of TQM. b) What do you understand by Employee involvement and Customer satisfaction?	10 10
