

**SUBJECT CODE:- 386**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**B.E.(Mech) Examination Nov/Dec 2015**  
**Elective-I: Modern Management Techniques**  
**(Revised)**

**[Time: Three Hours]****[Max. Marks: 80]**

“Please check whether you have got the right question paper.”

N.B i) Attempt any three questions from section A and three questions from section B

ii) Figures to the right indicate full marks.

**Section A**

- Q.1 a) Explain with illustrative example the use of check sheet in the following types :- 07  
       i. Study pattern of variability  
       ii. Quantity defect by location  
 b) Customer focus is the principle of TQM. Explain 07
- Q.2 a) Explain various types of softer scatter diagram along with illustrative examples and their interpretation 07  
 b) Explain the role of set up time and lot size in JIT. 07
- Q.3 a) Explain evolution of six sigma Approach 07  
 b) Explain various steps of a SMED process forwards significant reduction or setup. 07
- Q.4 a) What is poke-yoke? Give its purpose 07  
 b) The tree diagram is used most often in solving problems under uncertainty, explain with examples 07
- Q.5 Write short notes on any two. 12  
       a) BPR and its need  
       b) Types of waste in factory  
       c) Benefit of JIT

**Section – B**

- Q.6 a) What are value analysis and value engineering? How they are related to continuous improvement. 07  
 b) Explain the techniques of QFD which helps transform customer needs In to engineering characteristics and appropriate test methods for a product or services. 07
- Q.7 a) Explain the phases of value analysis. 07  
 b) Define TPM. What are the four development striving for overall equipment effectiveness. 07
- Q.8 a) What is quality of work life. Explain managerial role for improving QWL 07  
 b) Explain the concept of lateral thinking. 07
- Q.9 a) Explain the relationship between quality of work life and work life balance 07  
 b) Explain how interaction and relationship between customer requirement and product requirements are evaluated 07  
       in house of quality.
- Q.10 Write short notes on any two 12  
       a) Creativity and innovation  
       b) FAST analysis  
       c) Six thinking hats.