Second Semester Examination – 2013
TOTAL PRODUCTIVE MAINTENANCE
Time: 3 Hours

Max marks: 70

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

1. Answer the following questions: 2x10
   (a) Name all the pillars of TPM.
   (b) Explain the role of Jishu Hozen in TPM.
   (c) What are the advantages of MIS in maintenance schedule?
   (d) Differentiate between MTTF and MTBF.
   (e) Explain how reliability of equipments can be increased.
   (f) What is Optimum Inventory Assessment?
   (g) What is reliability centered maintenance?
   (h) Explain how Overall Equipment Effectiveness is calculated.
   (i) What are the differences between TPM and TQM?
   (j) Define Maintainability Analysis.

2. With the help of a Flow Chart or any Case Study, describe the implementation model of TPM
   activities in any manufacturing sector.   [10]

3.(a) Describe how MIS can be used as an effective tool for carrying out effective maintenance
   program.   [5]

  (b) Explain the concept of re-engineering maintenance process.   [5]

4. Briefly explain the present status of implementation of TPM activities in relation to Indian
   Manufacturing Industries.   [10]

5.Describe the sixteen types of losses encountered in any maintenance schedule of activities.
                                                                                 [10]

6. (a) What factors are considered for designing an effective maintainability program? [5]

  (b) Explain how maintenance tactics are selected.   [5]

7. What role does the various pillars of TPM play for implementation as maintenance strategy?
   Briefly describe any two pillars of TPM. What is the significance of 5S in TPM?   [2+4+4]

8. Write short notes on any two: 5x2
   (a) Planning and scheduling Resources.
   (b) Significance of Overall Equipment Effectiveness in TPM
   (c) Renewal Theory Approach.