

Roll No.									
----------	--	--	--	--	--	--	--	--	--

**B.E/B.Tech DEGREE END SEMESTER EXAMINATIONS, APR/MAY 2013**

**Manufacturing Engineering**

**Seventh Semester**

**MF9029 –TOTAL PRODUCTIVE MAINTENANCE**

**(REGULATIONS 2008)**

**Time:3 hr**

**Max.Mark:100**

**Answer ALL Questions**

**Part A (10 x 2 =20 Marks)**

1. What do you mean by maintenance excellence?
2. Define maintainability.
3. What is meant by "AGAN"?
4. Write a short note on any two sources of data for maintenance scheduling.
5. Write short note on Heinrich's Law.
6. What do you understand by autonomous maintenance?
7. State the importance of maintenance staffing methods.
8. State basic principles of Maintenance Error Decision Aid (MEDA).
9. State the vibration monitoring in maintenance.
10. Explain any two main features of maintenance management information system (MMIS).

**Part B (5 x 16=80 Marks)**

11. a.i) Discuss about roll of human factors in Maintenance function 8  
ii) List out various configuration of general service systems and discuss its applicability to maintenance. 8
  12. a.i) Enumerate Maintenance composite functions. 8  
ii) Discuss about three types of maintenance organisation. 8
- Or
- b.i) Discuss about the Benefits of Reliability Centered Maintenance (RCM) 8  
ii) Explain the seven steps to assess design reliability. 8

13. a.i) What are two major categories for repairable system? How can you classify Each category based on degree of restoration? 8
- ii) Explain about the replacement models. 8
- Or
- b.i) Explain about elements of preventive maintenance system. 8
- ii) Enumerate the functions of maintenance planning, scheduling and control 8
14. a.i) Explain the role of management and the need in implementing TPM 8
- ii) Enumerate about Relationship between breakdown Counter measures. 8
- Or
- b.i) Discuss about objectives and importance of TPM education and training 8
- ii) Explain PM analysis developed by Kunio Shirose to maximize equipment effectiveness. 8
15. a.i) Discuss about the requirements for computerised maintenance system. 8
- ii) Explain about the benefits derived from condition monitoring. 8
- Or
- b.i) Discuss about unfavourable circumstances for the successful application of condition monitoring. 8
- ii) Explain about wear debris and contaminant monitoring. 8
-