

Total No. of pages :

7230

1

Register No. :

Name of the Candidate:

DIPLOMA EXAMINATION, 2010

(MAINTENANCE ENGINEERING AND MANAGEMENT)

(PAPER – I)

110. PRINCIPLES OF INDUSTRIAL MAINTENANCE

December)

(Time: 3 Hours

Maximum: 100 Marks

Answer any FIVE questions

(5×20=100)

All questions carry equal marks

1. a) Discuss about the preventive maintenance planning in detail. (10)
b) List out the essential requirements for achieving good preventive maintenance. (10)
2. a) With neat sketch, explain any two category of equipment repair cycle. (10)
b) What do you meant by repair complexity? Discuss about the repair complexity of metal working equipment. (10)
3. Explain the maintenance works for any two equipments. (20)
4. a) Describe the maintenance of guide surfaces in milling machine. (8)
b) Explain the different types of gear transmission and discuss the various repair modes of gears. (12)
5. a) Explain how to reduce the wear of the bush used under different loading conditions. (10)
b) Describe the repair methods of solid and split bush in detail. (10)
6. a) Enumerate how the defects are identified in coupling and clutches. Explain the ways to rectify it. (12)
b) List out the common defects in vee belts. (8)
7. a) Explain the different types of chain drives in detail. (10)
b) Discuss about the maintenance of cranes and power presses. (10)
8. Write short note on the following: (4×5=20)
 - i) Repair of wedges and clamping plates
 - ii) Repair and maintenance of sprocket wheels
 - iii) Repair of cracks in cast iron body

iv) Restoration of parts by welding
