Roll No. ☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 01

Total No. of Questions : 08

M.Tech.(PE) (E-I)   (Sem.–2)
DIAGNOSTIC MAINTENANCE & MONITORING
Subject Code : PE-513
Paper ID : [E0450]

Time : 3 Hrs.   Max. Marks : 100

INSTRUCTION TO CANDIDATES :
 1.   Attempt any FIVE questions out of EIGHT questions.
 2.   Each question carries TWENTY marks.

Q1)   Define Maintenance and discuss Maintenance Objectives.

Q2)   How predictive maintenance is different from preventive maintenance? Explain with examples. Discuss how, the cost of Preventive maintenance is evaluated.

Q3)   What are different observational techniques and how these are helpful in maintenance and monitoring? Discuss.

Q4)   Explain wear analysis through Ferrography.

Q5)   What do you understand by diagnostic maintenance? How it can be applied to Textile Mill? Discuss.

Q6)   Explain the application and use of at least two non destructive testing methods applicable for fault diagnosis in Railways sector.

Q7)   Discuss condition monitoring Steam Turbines in Thermal Power plants through vibration monitoring; How it can be used for Fault diagnosis?

Q8)   Describe the maintenance control system and discuss briefly the three principle mechanism of maintenance control.