[Total No. of Questions - 8] [Total No. of Printed Pages - 2] (2063)

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M.Tech 2nd Semester Examination Diagnostic Maintenance & Monitoring

PE-513

Time: 3 Hours Max. Marks: 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary continuation sheet will be issued.

Note: Attempt any five questions. All questions carry equal marks.

- Give a brief overview of the term "Diagnostic Maintenance is used in various types of industries. How it can be classified? Give a detailed explanation of the various maintenance philosophies.
- Discus in detail the basic ingredients and the various steps involved in the implementation of maintenance planning by taking the example of an industry of your choice.
- Explain the importance of Non destructive Techniques (NDTs) in the diagnostic maintenance. Discuss the NDTs of radiography and magnetic particles testing for steel elements.
- Discuss the describe in detail the application of diagnostic maintenance in Thermal power plants.

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- Differentiate between predictive and preventive maintenance with the help if suitable examples. Also discuss the importance of training and safety aspects in implementing in maintenance activity.
- 6. Give a detailed account of the various observational techniques of testing industry.
- 7. Discuss in detail the various elements of good maintenance economics. Discuss their importance in maintenance management.
- 8. Write short notes ovary two of followings:
 - (a) Condition Monitoring.
 - (b) Wear analysis through ferrography.
 - (c) Comparison of various maintenance programmes.