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OE – 08

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 4030

Roll No.

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B.Tech.

SEVENTH SEMESTER EXAMINATION, 2006-07

CONDITION MONITORING AND DIAGNOSTIC

Time : 3 Hours

Total Marks : 100

- Note :** (i) Attempt *ALL* questions.
(ii) Be precise in your answer.

1. Attempt *any five* parts of the following : (6x5=30)
- (a) Discuss benefits of quality circle in maintenance.
 - (b) Discuss the general methods by which the reliability of production system can be maintained.
 - (c) Define failure analysis.
 - (d) Define maintenance productivity index.
 - (e) How production is affected by downtime index.
 - (f) Define factors responsible for breakdown maintenance index.

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2. Attempt *any four* parts of the following : (5x4=20)
- (a) Write short note on Maintenance Strategies.
 - (b) Define general conditions for which preventive maintenance is appropriate.
 - (c) Explain Total Productive Maintenance or TPM.
 - (d) Differentiate Breakdown maintenance and corrective maintenance.
 - (e) Explain Opportunity maintenance.
 - (f) Write a short note on "condition based maintenance".
3. Attempt *any two* parts of the following : (10x2=20)
- (a) Describe different monitoring devices to avoid failure.
 - (b) What are the different properties of oil for which monitoring is done to avoid failure of equipment ?
 - (c) Explain and differentiate online and offline monitoring.
4. Attempt *any two* parts of the following : (15x2=30)
- (a) Describe different methods of crack monitoring explain one of them.
 - (b) Describe Ferrography and its applications.
 - (c) Describe the method by which bearing can be monitored by frequency of sound.

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