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Total No. of Pages : 02

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B.Tech.(ME) (E-I 2012 Onwards) (Sem.-6) MAINTENANCE & RELIABILTY ENGG. Subject Code : DE/ME-2.6 M.Code : 71258

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

- 1. Answer briefly :
 - a) What is the predictive maintenance?
 - b) Differentiate between MTTR and MTBF.
 - c) What is the preventive maintenance?
 - d) What is the need of maintenance record keeping?
 - e) State the objectives of TPM.
 - f) Fist the design consideration of guide ways.
 - g) State the benefits of keeping equipment records.
 - h) Define "Maintenance".
 - i) Define "Reliability".
 - j) Differentiate between Reliability and Maintainability.



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SECTION-B

- 2. Discuss the need of maintenance planning.
- Derive an expression for determining the-mean time to failure (MTTF) 3.
- 4. What are the different costs of machine breakdown, discuss in detail?
- 5. Explain the terms, availability, inherent availability, achieved availability and operational availability.
- 6. What are the different conditions based monitoring techniques, discuss them briefly?

SECTION-C

- How to develop preventive maintenance schedule and. also develop the fault tree of gear 7. train system?
- 8. List the possible causes of failure of bearing and explain how to overcome them.
- 9.
- Juemical control of corrosion b) Total productive maintenance Anter Ante

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

2	M -	7	1	2	5	8	