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B.Tech.(ME) (E-I 2011 Onwards) (Sem.-6) MAINTENANCE & RELIABILTY ENGG.

Subject Code: DE/ME-2.6 M.Code: 71258

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 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. Explain briefly:

- a) What are the objectives of maintenance?
- b) What is the application of work measurement in maintenance?
- c) Write advantages of total productive maintenance.
- d) Define maintenance engineering.
- e) Discuss the concept of reliability.
- f) What do you mean by reliability of parallel elements?
- g) What is the importance of reliability in design?
- h) What do you mean by fault tree analysis?
- i) Discuss applications of computerized maintenance information system.
- j) What do you mean by maintenance schedule?



SECTION-B

- 2. Discus in detail various costs associated with machine breakdown.
- 3. Explain the development of preventive maintenance schedule.
- 4. Discuss the use of reliability concept in design and maintenance of different systems.
- 5. Discuss about statistical estimation of reliability indices in detail.
- 6. Explain the organization of maintenance system with the help of diagram.

SECTION-C

- 7. Write brief note on various condition monitoring techniques in maintenance planning. Discuss any one in detail.
- 8. Discuss the importance of reliability improvement in an organization. Also explain the concept of redundant and stand by systems.
- 9. Explain the steps of fault tree construction with the help of suitable example.

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.

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