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SUBJECT CODE NO:- E-8209
FACULTY OF ENGINEERING AND TECHNOLOGY
M.E. (Mechanical) Examination Nov/Dec 2017
EI-1 Maintenance & Reliability Engg.
(Revised)

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
1. Solve any three questions from each section.
 2. Assume suitable data, if required.

Section A

- Q.1 Explain the concept of probability and reliability; also explain the patterns of failure. 14
- Q.2 Explain the normal, log normal and Gamma distribution. 13
- Q.3
- a) Explain the exponential distribution. 06
 - b) Explain the event tree method with suitable example. 07
- Q.4 Explain the design process and design for reliability. 13
- Q.5 Write short note on. (any two) 13
- a) FTA
 - b) FMECA
 - c) RBD

Section B

- Q.6
- a) Explain the different types of maintenance. 06
 - b) Explain the terro-technology and applications. 08
- Q.7 Explain the production maintenance system dynamic model. 13
- Q.8 Explain the maintenance procedure of industry. 13
- Q.9
- a) Explain the maintenance planning and control requirement. 06
 - b) Explain the computer based management information system. 07
- Q.10 Write short note on. (any two) 13
- a) Basic rules for success
 - b) Work planning & work control
 - c) Maintenance & profitability