Total No. of Questions : 8]

Roll No

ME-703(D)-CBGS

B.Tech., VII Semester

Examination, December 2020

Choice Based Grading System (CBGS)

Reliability Engineering

Time : Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions. ii) All questions carry equal marks.

- a) Define the term reliability? Explain the reliability function.
 b) Describe the importance of reliability engineering. 7
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2. a) Differentiate between reliability and quality. 7

- b) What do you mean by Reliability management explain in detail? 7
- a) Gave Some examples of system failures explain any one in detail.
 b) Explain Bay's Theorem in detail.
- 4. a) Describe density functions for different types of discrete and continuous variables. 7
 - b) What are time dependent failure models?
- 5. a) Differentiate between weibulldistribution , normal distribution and the lognormal distribution. 7
 - b) Explain the term MTTF. Also derive it with respect to reliability and CDF. 7

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PTO

7

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6.	a) b)	What is MTBF? Draw and explain Bath tub Curve.	7 7
7.	a) b)	What are Time dependent reliability of components? Define Maintainability and availability and compare reliability.	7 it with 7
8.	a)	What is inspection and repair availability model? Exp	plain 7
	b)	Explain Monte Carlo Simulation.	7

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5