



VIT
UNIVERSITY
(Estd. u/s 3 of UGC Act 1956)

SCHOOL OF INFORMATION TECHNOLOGY & ENGINEERING

Internal Exam Question Paper – June 2013

Course : M.Tech(SDM)

Subject : SDM 510 - Software Reliability and Metrics

Duration : 1 Hour & 30 Minutes

Max. Marks : 50

Answer All Questions

(10 * 10 = 50 Marks)

1. Define fault tree. Explain the primary, secondary and top level failure events with a suitable example.
2. Explain in detail Goal Based Measurement (GBM) framework with a suitable example.
3. What is a bathtub curve? Explain why it is not applicable to software reliability based on its characteristics.
4. What is the need of reliability estimation? Explain the major steps in the framework of reliability centered maintenance.
5. Explain the concept of parallel redundancy and standby redundancy in the context of engine failure or uninterrupted power supply.