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# Question Paper Code: 40357

## M.E./M.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

#### Elective

### Computer Science and Engineering

## ${ m CP}$ 5005 — SOFTWARE QUALITY ASSURANCE AND TESTING

(Regulations 2017)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

#### PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. Differentiate verification and validation.
- 2. List the origins of defects.
- 3. What is system testing?
- 4. What is boundary value analysis? Give example.
- 5. What is stress testing?
- .6. State the metrics of monitoring test execution.
- 7. What is a quality metric? Give any two examples of quality metrics.
- 8. Specify any four characteristics of ISO 9000: 2000.
- 9. State the importance of Root cause analysis.
- 10. What is risk identification in quality assurance?

#### PART B - (5 × 13 = 65 marks)

- 11. (a) (i) Differentiate black box and White box testing techniques with suitable examples. (8)
  - (ii) Illustrate items to be recorded in the management review report.

Or

(b) Explain in detail about objectives of testing and various testing activities.

