

Code No: C5806, C0506

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH I - SEMESTER EXAMINATIONS, APRIL/MAY-2012
SOFTWARE QUALITY ASSURANCE AND TESTING
(COMMON TO COMPUTER SCIENCE AND ENGINEERING, COMPUTER
SCIENCE)**

Time: 3hours**Max. Marks: 60**

**Answer any five questions
All questions carry equal marks**

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- 1.a) What are components of SQA? Explain in detail.
- b) Explain about PCMM and Malcom Balridge.

- 2.a) What are metrics for Software Maintenance? Explain.
- b) Explain in detail about software quality indicators.

- 3.a) What is the structured approach to testing? Explain in detail.
- b) Explain verification, validation, functional testing and structural testing.

- 4.a) Explain Random Testing, Risk-based Testing and Regression Testing.
- b) Discuss in detail about Silk test with suitable examples.

- 5.a) What are Testing off the Shelf Components? Explain.
- b) How to test software installation? Explain with examples.

- 6.a) What is quality? Explain CMM.
- b) Explain in detail about Cause-Effect graphing and CRUD.

- 7.a) Discuss about Testing Client/Server – Web applications.
- b) How to analyze software metrics results? Explain in detail.

8. Explain the following:
 - a) Pareto Analysis
 - b) Acceptance Test
 - c) Product Quality metrics.

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