

**FACULTY OF ENGINEERING**  
BE 4/4 (CSE) II Semester (Main & Backlog) Examination, May/June 2019

Subject: Software Quality and Testing (Elective-II)

Time: 3 Hours

Max. Marks: 75

Note: Answer all questions from Part-A & any five questions from Part-B

PART – A (25 Marks)

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|---|---|
| 1. Define quality and software quality Assurance.               | 2 |
| 2. Differentiate 3 sigma and 6 sigma                            | 3 |
| 3. How to implement software quality metrics?                   | 2 |
| 4. What is function point? How do you compute it?               | 3 |
| 5. Why the defects are hard to find?                            | 2 |
| 6. Distinguish validation and verification                      | 2 |
| 7. Compare glass box testing and black box testing.             | 3 |
| 8. Write short notes on Pareto analysis.                        | 2 |
| 9. Which testing is done on executed code? Give its objectives. | 3 |
| 10. Discuss about work bench concept with an example.           | 3 |

PART – B (50 Marks)

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|---|----|
| 11.a) Define and explain about the steps in software quality Assurance plan.      | 5  |
| b) Discuss about CMM and CMMI.  | 5  |
| 12. What is the need of software quality metrics? Explain In-process metrics.     | 10 |
| 13. How to build a structural approach to software testing?                       | 10 |
| 14. Explain the methodology to evaluate automated testing tools.                  | 10 |
| 15. What is V testing? Explain the work bench used to test client/server systems. | 10 |
| 16.a) Explain eleven steps of testing process.                                    | 5  |
| b) Discuss Load Runner testing tool.  | 5  |
| 17. Write short notes on following:   |    |
| a. Testing Tactics Checklist  | 4  |
| b. JAD  | 3  |
| c. Boundary Value Analysis  | 3  |

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