

FACULTY OF ENGINEERING

B.E. 4/4 (CSE) II-Semester (Make-up) Examination, August 2012

Subject : **Software Quality and Testing**
(Elective-II)

Time : 3 Hours

Max. Marks: 75

Note: Answer **all** questions of Part – A. Answer any **five** questions from Part-B.**PART – A (25 Marks)**

1. Define SQA
2. What is PCMM?
3. What are software Quality Indicators?
4. How to identify software quality metrics?
5. Differentiate Defect and failure.
6. What are the test strategies ?
7. Why are defects hard to find?
8. Differentiate Testing Techniques and Testing Tools.
9. What is the work Bench for Data Warehousing testing?
10. What is performance Testing?

PART – B (5x10=50 Marks)

- 11.(a) Explain about Software Quality Assurance Plan. (5)
(b) Distinguish between three sigma and six sigma. (5)
- 12.(a) Explain about in in-process quality metrics. (5)
(b) How to validate the software quality merits ? Explain. (5)
- 13.(a) Explain Economics of SDLC Testing with a numerical examples. (5)
(b) Explain various methods of establishing Testing policies. (5)
14. What is work Bench? Explain and considerations in developing Testing methodologies. (10)
- 15.(a) Provide and explain Taxonomy of Testing Tools. (5)
(b) Explain benefits of Testing Tools. (5)
16. What is V-Testing? Explain 11 step testing process in detail. (10)
17. Explain the following:
 - (a) CMMI (3)
 - (b) White-Box Testing (4)
 - (c) Cansu Effect Graphing (3)
