

FACULTY OF ENGINEERING**B.E. 3/4 (CSE) I – Semester (Main) Examination, November 2013****Subject : Software Engineering****Time : 3 hours****Max. Marks : 75****Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.****PART – A (25 Marks)**

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| 1. What are umbrella activities? Give an example. | 3 |
| 2. Define personal software process. | 2 |
| 3. Why do we use CPM (Critical Path Method)? | 2 |
| 4. What does the requirements engineer do in the requirements elaboration phase? | 3 |
| 5. List the goals of a good design. | 3 |
| 6. What does a state diagram represent? | 2 |
| 7. What is the purpose of a Data design? | 3 |
| 8. List the Golden rules for interface design. | 2 |
| 9. When is software said to be testable? | 3 |
| 10. Define software quality. | 2 |

PART – B (50 Marks)

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| 11. "The S.E.I. (Software Engineering Institute) has developed a comprehensive model predicated on a set of software engineering capabilities that should be present as organizations reach different levels of process maturity". Explain the model in detail. | 10 |
| 12. Explain in detail the COCOMO-II. | 10 |
| 13. Explain in detail class-based modeling. | 10 |
| 14. List and explain in short the steps in architectural design process. | 10 |
| 15. Explain in detail incremental integration testing and its kinds. | 10 |
| 16. Write short notes on the following : | |
| a) AM (Agile Modeling) | 3 |
| b) Elements of Requirements Analysis Model | 4 |
| c) Pattern based software design | 3 |
| 17. Write short notes on the following : | |
| a) Call-and-Return Architectural style | 4 |
| b) Fault Based Testing | 3 |
| c) Metrics for Analysis model | 3 |
