

# FACULTY OF INFORMATICS

## B.E. 3/4 (IT) II Semester Main Examination

April / May 2007

### SOFTWARE ENGINEERING

Time : 3 Hours]

[Max. Marks : 75

- Note :** 1) Answer **all** questions of Part A.  
2) Answer any **five** questions from Part B.

#### Part - A

Marks 25

1. Differentiate between Process, Product and Project. 3
2. What are the components of an SRS ? 3
3. What is Data Dictionary ? 2
4. What are the Design Principles ? 3
5. Differentiate between Coupling and Cohesion. 3
6. What is the difference between Alpha and Beta Testing ? 2
7. Differentiate between System and Acceptance Testing. 2
8. What is function point ? 2
9. What is boundary value analysis ? 3
10. Differentiate between Test Stub and Test Driver. 2

#### Part - B

5 × 10 = 50

11. List various Software Process Models known to you and discuss any three (3) process models with a neat sketch.
12. Explain fundamental Software Design concepts.

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13. Discuss the differences between Functional and Structural Testing and suggest how they can be used together in defect testing process.
14. Discuss the differences between Verification and Validation and explain why Static Analysis of programs is an important verification technique.
15. a) What is Software Maintenance ? What features and attributes make software maintainable ?  
b) What are the tools and techniques used in Software Maintenance ?
16. a) Discuss the major issues of Project Planning.  
b) Discuss COCOMO-II Model.
17. Discuss the following :
  - a) SQA Plan.
  - b) Reliability.
  - c) Configuration Management.