

**B.C.A. IV Semester Examination, March 2011**  
**SOFTWARE ENGINEERING**

Time : 3 Hours

Max. Marks : 80

**Instructions :** *From Part A, 1 to 8 questions carry 1 mark and 9 to 14 questions carry 2 marks, from Part B each question carries 5 marks and from Part C, each question carries 10 marks.*

**PART – A**

I. Answer **all** the questions :

- 1) Define software.
- 2) What is Real time software ?
- 3) Define software metrics.
- 4) Define software planning.
- 5) What are the characteristics of software risk ?
- 6) What is risk projection ?
- 7) What is Decision Table ?
- 8) What is Software Verification ?
- 9) What is Software Engineering ?
- 10) Mention different measures for Software Quality.
- 11) What are the major aspects for system description in PSL ?
- 12) What are the characteristics of a module ?
- 13) Define coupling and cohesion.
- 14) What is Stepwise Refinement ?

**P.T.O.**

## PART – B

II. Answer **any six** questions :

- 1) Explain the characteristics of software.
- 2) Explain Linear Sequential Software Process Model.
- 3) Explain the factors that affect software quality.
- 4) Explain the different resources required for software planning.
- 5) Explain customer related risks available in software.
- 6) Explain Data Flow diagram with an example.
- 7) Explain Walkthroughs and Inspection.
- 8) Explain Unit Testing.

## PART – C

III. Answer **any three** questions :

- 1) Explain COCOMO Model.
  - 2) Explain different types of Software Measurement Metrics.
  - 3) Explain Software Project estimation based on Decomposition techniques.
  - 4) What is Software Requirement Specification ? Explain.
  - 5) Explain different guidelines for Documentation.
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