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***B.Tech. Degree V Semester Examination November 2014*****CS/IT 1503 SOFTWARE ENGINEERING***(2012 Scheme)*

Time : 3 Hours

Maximum Marks : 100

**PART A**(Answer **ALL** questions)

(8 x 5 = 40)

- I. (a) What do you mean by a software process? What is the difference between a methodology and process? Explain using suitable examples.
- (b) Discuss the relative advantages of formal and informal requirement specifications.
- (c) What do you mean by terms cohesion and coupling in the context of software design? How are these concepts useful in arriving at good design of a system?
- (d) Write the issues identified during any software program.
- (e) Distinguish between alpha, beta and acceptance testing. How are the test cases designed for these tests?
- (f) Define the terms software reliability and software quality. How can these be measured?
- (g) Write short notes on software project scheduling.
- (h) What are the main advantages of using CASE TOOLS?

**PART B**

(4 x 15 = 60)

- II. Which are the major phases in water fall model of software development? Which phase consumes the maximum effort for developing a typical software product?

**OR**

- III. What are the different types of requirement problems that the analyst usually anticipates and rectifies in gathered requirements? Give examples of each. How does the analyst overcome these problems?

- IV. What do you mean by the term software reverse engineering? Why is it required? Explain different activities undertaken during reverse engineering.

**OR**

- V. Explain the following fundamental design concepts.

- (i) Structure analysis and design
- (ii) Architectural design
- (iii) Interface design.

- VI. Describe with examples the different methods of test case design.

**OR**

- VII. Explain the following terms:

- (i) ISO
- (ii) CMM
- (iii) TQM

- VIII. Discuss various phases of software project management.

**OR**

- IX. Explain how COCOMO 2 estimation model differs from the original COCOMO model.

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