Exam.Code:0916 Sub. Code: 6399

2014

B.E. (Computer Science and Engineering) Fourth Semester

CS-404: Software Engineering

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

x-x-x

- Attempt the following:-I.
 - a) What are major challenges in software engineering?
 - b) Name the best and worst coupling and cohesion level?
 - c) Differentiate among alpha and beta testing.
 - d) What is agile software development?
 - e) What is aggregation and composition in class diagrams

(5x2)

UNIT - I

- Explain basic COCOMO and intermediate COCOMO model to calculate cost, time, II. (10)and staff for a software project.
- a) Explain the merits and demerits of RAD and RUP model. III.
 - b) Discuss the structured design methodology.

(2x5)

- a) Explain the various components of SRS. IV.
 - b) Draw a labelled DFD for student registration system.

(2x5)

UNIT - II

- Explain the test case criteria for black box and white box testing. Explain any two V. (10)testing methods that falls under white box testing.
- a) Explain and Draw UML concept for use case diagram and sequence diagram. (3+3) VI.
 - b) Explain software maintenance and its metrics.

(4)

Write short note on the following: Project planning Structure charts CASE standards VII. (10)Inspection and review.