B.Tech / Integrated (MBA/M.Tech) 4th Semester Examination
June 2014
Software Engineering Concepts
Subject Code: CSL-206

Time Allowed: 03 hours. Maximum Marks: 100

Before answering the question paper the candidate should ensure that they have been supplied the correct question paper. Complaints in this regard, if any, shall not be entertained after the examination.

Note: Question No. 1 is Compulsory and attempt two questions from each section. All questions carry equal marks.

1. [20]
   a) Differentiate between evolutionary and spiral model.
   b) Differentiate between coupling and cohesion.
   c) Explain COCOMO model.
   d) Define software re-engineering.
   e) List various steps involved in requirements gathering.

SECTION-A

2. [10]
   a) Explain characteristics of a good software. List various software myths.
   b) Define software development life cycle. Explain waterfall model.

3. [10]
   a) What do you understand by requirements Analysis?
      Explain Characteristics of SRS document.
   b) Explain the process of validating the requirements of a system. Write steps for identifying non-functional requirements of a system.

4. [10]
   a) List and explain the steps involved in Risk Management.
   b) Explain Putnam Resource Allocation Model in detail.

SECTION-B

5. [10]
   a) Explain Function oriented methodology of software design in detail.
   b) Define software reliability. Discuss various software reliability models.

6. [10]
   a) Differentiate between error and fault.
   b) Differentiate between alpha and beta testing.
   c) What is structural testing? How it is different from functional testing? Illustrate with example.

7. [10]
   a) Define software maintenance. Explain the software maintenance process by taking suitable example.
   b) What do you understand by reverse engineering? Explain the scenarios where reverse engineering is helpful in reducing development cost.