ROLL. NO……….. 1223092

BCA 3rd Semester Examination
Jan. 2014
Subject – Software Engineering
Subject Code: CAL - 205

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 any two questions from each section. All questions carry equal marks.

1. Write a short note on the following: (5*4)
   a. What is mean by S/w maintenance? Why the cost of s/w maintenance is so high?
   b. Differentiate between Debugging and Testing.
   c. Data flow diagram
   d. Coupling and cohesion
   e. What are coding conventions? Discuss the coding guidelines?

SECTION -A

2. (a) Differentiate between the Waterfall model and Spiral model along with their relative merits and demerits. (15)
   (b) What do you mean by feasibility study? What are the different types of feasibility study? (5)

3. What do you mean by requirement engineering? Explain the different types of requirement elicitation techniques like FAST and QTD in detail. (20)

4. (a) What do you mean by risk management? Discuss the different types of risk involved in software development projects to deal with them. (10)
   (b) Explain COCOMO model in detail. (10)

SECTION -B

5. What do you mean by testing? Explain the various types of Black box testing in detail. (20)

6. (a) What do you understand by software design? Discuss the design principles in detail. (10)
   (b) What do you meant by SCM? How do audit and reviews help in SCM? Explain. (10)

7. (a) What do you mean by reverse engineering? State the objectives and importance of reverse engineering in software development. (15)
   (b) Differentiate between verification and validation. (5)