Paper 6 : SOFTWARE ENGINEERING - 2012

Note : Attempt any two parts from each question. All questions carry equal marks.

1. (a) Explain life cycle of Software Development.
   (b) What is Software Crisis ? How is this crisis solved by Software Engineering ?
   (c) Explain prototype models. How is it different from waterfall model ?

2. (a) Describe the phase management process.
   (b) Explain cost estimation.   (
   (c) Explain function oriented matrices.

3. (a) What is DFD ? Draw DFD for restaurant system.
   (b) How are data dictionary and context diagram helpful in software development ? Explain with example.
   (c) Write software requirement specification for a system preparing library management of your college.

4. (a) Write the principle of Software Design.
   (b) Explain coupling and cohesion.
   (c) Which coding rules are applied for software development ? How codes are verifited ?

5. (a) Is unit testing possible in all circumstances ? Provide example to justify your answer.
   (b) Write short notes on the following :
      (i) Black Box testing   (ii) White Box testing
   (c) What is Goal of Testing ? Why is the psychology of the tester important ?