[Time: 3 Hours]   **[Marks : 80]**

Please check whether you have got the right question paper.

N.B: 1. Question **No.1** is **compulsory**.
         2. Attempt **any three** questions out of the remaining questions
         3. Make suitable assumptions wherever necessary.

Q.1   Define and explain the following terms :

  a. Software Architecture versus Software Design.   **5**

  b. Modularity   **5**

  c. Task Structure Matrix   **5**

  d. Psychology and Philosophy of Design   **5**

Q.2 a. Explain in detail elements of software architecture.   **10**

  b. Explain the concept of models in detail along with their usage and roles.   **10**

Q.3 a. Discuss in detail 4+1 view Model of Architecture.   **10**

  b. Explain any two architectural styles in detail.   **10**

Q.4 a. Explain Architectural Description Language (ADL) in detail.   **10**

  b. What are the problems in Software Architectural Design?   **10**

Q.5 a. What is the role of connector? Explain it with an example.   **10**

  b. How to improve software architecture quality? Also explain the importance   **10**

      of assessing its quality.

Q.6   Write short notes on **any two** of the following :   **20**

        a) Meta Models

        b) Cohesion and Coupling

        c) Software Product Life Cycle