Q.P. Code : 581601

Time: 3 Hrs   Max Marks: 80

N.B.: (1) Question No. 1 is compulsory.
      (2) Attempt any three questions out of remaining five.
      (3) Figures to the right indicate full marks.
      (4) Assume suitable data wherever required.

1.   Develop the SRS for the following scenario :-   [20]
    A school has one or more departments. Department offers one or more subjects. A particular subject will be offered by only one department. Department has instructors and instructors can work for one or more departments. Students can enrol in up to 5 subjects in a school. Instructor can teach up to 3 subjects. The same subject can be taught by the different instructors. Students can be enrolled in more than one school.
    SRS for the school should include the following:
        a. Product perspective
        b. Scope and objective
        c. Functional requirements
        d. Non-Functional requirements

2.   (a)   Explain and compare FTR and walkthrough.   [10]
    (b)   Explain the process of CMM.   [10]

3.   (a)   Explain coupling & cohesion. Explain different types of coupling & [10]
        cohesion.
    (b)   What are Agile process and its advantages? Explain any one Agile process.   [10]

4.   (a)   Explain the change control and version control activities in SCM.   [10]
    (b)   Differentiate between black box testing and white box testing. Explain in [10]
        detail about any one testing tool.

5.   (a)   What are the different types of maintenance and also explain steps for [10]
        creating a maintenance log?
    (b)   What is user interface design process? Explain with one example.   [10]

6.   Write short notes on (any two)
    (a)   Risk management.   [10]
    (b)   Reverse Engineering.   [10]
    (c)   Service-Oriented Software Engineering.   [10]
    (d)   Object oriented testing methods.   [10]