

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:
- Product perspective
 - Scope and objective
 - Functional requirements
 - 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 & cohesion. [10]
(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 detail about any one testing tool. [10]
5. (a) What are the different types of maintenance and also explain steps for creating a maintenance log? [10]
(b) What is user interface design process? Explain with one example. [10]
6. Write short notes on (any two)
- Risk management. [10]
 - Reverse Engineering. [10]
 - Service-Oriented Software Engineering. [10]
 - Object oriented testing methods. [10]