

Time: 3 hour

Max. Marks: 80

Note: Question 1 is compulsory. Attempt any 3 out of remaining 5 questions.

Q1 (20)

- A. Define software engineering and explain different umbrella activities
- B. Explain formal technical review.
- C. What is cost estimation? Assume that a system for simple students registration in a course is planned to be developed and its estimated size is approximately 10,000 lines of code. The organization is proposed to pay Rs 25000/month to software engineers. Compute the development effort, development time?
- D Differentiate White box and black box testing

Q2 (10)

- A. Discuss different categories of risk and You are the project manager for a major software company. You have been asked to lead a team that's developing "next generation" word processing software. Create a risk table for the project.. (10)
- B. Explain project scheduling and describe CPM and PERT. (10)

Q3. (10)

- A. Develop SRS for hospital management system (10)
- B. Discuss Software configuration management. (10)

Q4 (10)

- A. Discuss project management techniques. (10)
- B. Explain software quality management with QA and QC (10)

Q5 (10)

- A. Elaborate COCOMO Method of cost estimation. (10)
- B. Explain software maintenance and different types of maintenance (10)

Q6 Write short note on any 2. (20)

- A. Reverse engineering process
- B. Unit testing and integration testing.
- C. Software design patterns
