

2125

B. E. (Computer Science and Engineering)
Third Semester
CS-305: Software Engineering

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the following:-

- a) Differentiate between system Engineering and Software Engineering.
- b) What is the Spiral Model?
- c) Define Cohesion with example
- d) What are the activities in Project Management?
- e) Differentiate between Top-Down and Bottom-Up Testing. (5x2)

UNIT - I

- II. Explain the software engineering, what do you understand by the term “software”? Discuss its characteristics and components? (10)
- III. Define the term SRS. Explain the various characteristics and components of SRS? (10)
- IV. Discuss Design Principles, Coupling & Cohesion. Compare Structured and Object-Oriented Analysis. (10)

UNIT - II

- V. What is Software Measurement? Discuss the framework and design of technical software metrics. (10)
- VI. What do you mean by Software Testing? Why it's required? Also explain different type of testing techniques. (10)
- VII. How we estimate cost of software by Constructive Cost Model? Explain all three modes of COCOMO Model with example. (10)

x-x-x