

Exam.Code:0924
Sub. Code: 6525

2054
B.E. (Information Technology)
Sixth Semester
PEIT-601D: 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. Answer the following:-

- (a) What are the different levels of software testing?
- (b) Name the four CASE tool examples.
- (c) Why is architectural design important in software engineering
- (d) Name different phases of a spiral model
- (e) Explain system engineering vs software engineering (5x2)

UNIT - I

- II. a) Explain the difference between COCOMO and COCOMO-II model.
b) What is a software crisis? Write measures to prevent it. (2x5)
- III. a) Difference between structured and object-oriented analysis.
b) Explain the rapid application development model with a diagram. (2x5)
- IV. Write about the SRS organization. Prepare an SRS for the hospital management system. (10)

UNIT - II

- V. Define the use case and draw a use case diagram for the attendance management system. (10)
- VI. What is meant by test case design? Discuss its objectives and indicate the steps involved in test case design for generating square roots of a quadratic equation. (10)
- VII. a) Write the difference between cohesion and coupling with an example.
b) What are the metrics used for software design and software quality? (2x5)

x-x-x