

ANNA UNIVERSITY OF TECHNOLOGY, COIMBATORE
B.E. / B.TECH. DEGREE EXAMINATIONS : NOV / DEC 2011
REGULATIONS : 2008
FIFTH SEMESTER - CSE
080230019 - SOFTWARE ENGINEERING

Time : 3 Hours

Max.Marks : 100

PART - A

(10 x 2 = 20 MARKS)

ANSWER ALL QUESTIONS

1. Give the difference between software engineering and system engineering
2. What are the drawbacks of development process?
3. Differentiate verification and validation.
4. What are the two kinds of requirement document? Explain it.
5. Briefly explain about the properties of pipes and filter system.
6. Write the disadvantage of repositories.
7. What is desk checking?
8. Define orthogonal defect classification.
9. Define hazard.
10. Draw the taxonomy of software rejuvenation

PART - B

(5 x 16 = 80 MARKS)

ANSWER ALL QUESTIONS

- 11.(a) Explain in detail about practical process modeling.
(OR)
(b) Give a real time example for information system and explain it in detail.

12. (a) Draw the following diagram for library problem
 - (i) UML Class model
 - (ii) Message sequence chart
 - (iii) State chart diagram
 - (iv) Petrinet
 - (v) Data flow diagram
 - (vi) Library use cases

(OR)

- (b) Briefly discuss about risk management activities

- 13.(a) Explain techniques for improving design in detail.

(OR)

- (b) What is object orientation? Explain in detail about the representation of object orientation using UML.

- 14.(a) (i) Why unit testing is so important ? Explain the concept of unit testing in detail . (8)

- (ii) Explain the various automated tools and techniques for testing the Program. (8)

(OR)

- (b) Describe fault seeding and fault prone code in detail.

15. (a) What are the metrics used for estimating cost? Discuss about the COCOMO model for cost estimating of the software.

(OR)

- (b) Explain the various automated tools and techniques for software maintenance.

*****THE END*****