Register Number: ……..

M.E DEGREE EXAMINATIONS: MAY/JUNE 2013

Second Semester

COMPUTER SCIENCE AND ENGINEERING

CSE505: Object Oriented Software Engineering

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. How do you distinguish a “hard real-time system” from a “soft real-time system”?
2. What are the relative merits of “throw away prototypes” and “evolutionary prototypes”?
3. Define Validation.
4. How do you distinguish between a usecase and a usecase diagram?
5. What is a software component?
6. What is a third –generation user interface? How is it superior to earlier interfaces?
7. How does cyclomatic complexity provide a measure of structural complexity in a software?
8. Write the difference between Black-Box vs Glass-Box Testing.
9. Define Baseline.
10. What are the prominent risk factors in a software project?

PART B (5 x 16 = 80 Marks)

11. a) (i) Discuss in detail about the Linear sequential model. (8)

(ii) What are the characteristics of software products? Explain. (8)

(OR)

b) (i) Explain about the unified process. (8)

(ii) Explain the spiral life cycle model with a neat sketch. (8)

12. a) List out the Requirement engineering tasks and write in detail about the Requirement elicitation and Requirement validation.

(OR)

b) (i) Explain the Sequence and Activity diagram with a neat sketch for a library management system. (8)

(ii) Explain the functional model with an example. (8)

13. a) Explain the structured design with a neat diagram.

(OR)

b) (i) Write in detail about the Detailed design. (8)

(ii) What is a Framework? Explain. (8)

14. a) (i) Explain about Walkthroughs and Inspections. (8)

(ii) Describe about Integration testing. (8)

(OR)

b) (i) Explain regression testing? (8)

(ii) What is structural testing? Explain. (8)

15. a) (i) Which of the software quality characteristics are precisely quantifiable? What are the metrics used for expressing the same? (8)

(ii) Explain about the software configuration management. (8)

(OR)

b) Write notes on

1. COCOMO for Effort estimation. (8)
2. Project Organization. (8)

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