MCA DEGREE EXAMINATIONS: NOV/DEC 2010
Third Semester
MASTER OF COMPUTER APPLICATIONS
MCA512: Software Engineering

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

Answer ALL Questions:-
PART A (10 x 2 = 20 Marks)

1. What are the five generic process framework activities?
2. List out the drawbacks of the RAD model.
3. What does a system engineering model accomplish?
4. Define the verification and validation.
5. What are the characteristics of a good design?
6. Write any four criteria to evaluate a modular design?
7. What is alpha and beta testing?
8. How do you compute cyclomatic complexity?
9. List out the objectives of Formal Technical Review.
10. What is Software Configuration Management?

PART- B (5 x 16 = 80 Marks)

11. a) (i) Illustrate Spiral model with suitable example.   (12)

    (ii) Bring out the merits and demerits of this model.   (4)
(OR)
  b) Discuss the activities of Extreme Programming in Agile Process Model.

12. a) Describe the various activities of requirement engineering tasks.
(OR)
  b) (i) Explain the system modeling with UML   (8)
     (ii) How do you validate the requirements?   (8)

13. a) Explain the fundamental software design concepts in detail.
(OR)
  b) Explain architectural styles and patterns in detail.

14. a) Describe the various testing strategies used in Software Engineering.
(OR)
  b) Explain in detail on White Box Testing.

15. a) (i) Write a note on Formal Technical Review.   (8)
    (ii) Discuss the Quality concepts and SQA activities in detail.   (8)
(OR)
  b) Describe the SCM Process in detail.

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