

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

MCA (2015 & Onwards) (Sem.-3)
SOFTWARE ENGINEERING & PROJECT MANAGEMENT

Subject Code : MCA-303

M.Code : 74075

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.
2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.
3. Use of Non-Programmable scientific calculator is allowed.

SECTION-A

1. Identify the stages through which a software product passes during its lifetime.
2. a. What is software crisis?
b. What are the shortcomings of iterative waterfall model?

SECTION-B

3. How structural design methodology is used in function-oriented design? Explain different steps used in design methodology with a suitable example.
4. a. Explain the problems that need to be identified and solved in requirements analysis.
b. Differentiate between FAST and QFD.

SECTION-C

5. Explain the use of COCOMO model for cost estimation of a software project.
6. a. Explain the approaches to design black-box tests cases.
b. Explain unit testing.

SECTION-D

7. Explain the process of software reengineering.
8.
 - a. Explain the use of CASE tools in software life cycle.
 - b. What is change control? Explain.

SECTION-E

9. **Answer briefly :**
 - a. Differentiate between methodology and tools.
 - b. What is refactoring?
 - c. What is reverse engineering?
 - d. What is performance testing?
 - e. Differentiate between alpha and beta testing.
 - f. Explain software maintenance.
 - g. What is quality assurance?
 - h. Differentiate between abstraction and modularity.
 - i. What is function point?
 - j. What is drawback of waterfall model?