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 die 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?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.