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Total Number of Pages : 02

MCA  
MCC403

**4th Semester Regular / Back Examination – 2016**

**SOFTWARE ENGINEERING**

**BRANCH(S): MCA**

**Q CODE : MCC403**

**Time: 3 Hours**

**Max Marks: 70**

**Answer Question No.1 which is compulsory and any five from the rest.  
The figures in the right hand margin indicate marks.**

- Q1 Answer the following questions: (2 x 10)
- a) Define Software Engineering?
  - b) What is software process model?
  - c) Define Verification and Validation.
  - d) What is LOC?
  - e) What is Agile Method?
  - f) Define Software Reliability.
  - g) What is Regression Testing
  - h) Define White Box testing.
  - i) List out various methods for Cyclomatic Complexity?
  - j) Define Software Quality?
- Q2 a) Discuss the important activities that are carried out during the feasibility study phase. (5)
- b) What is meta model? Discuss why the spiral life cycle model is considered to be a meta model (5)
- Q3 a) Discuss the objectives of requirement Analysis? (5)
- b) Explain the cost estimation procedure using basic COCOMO model. (5)
- Q4 a) What is balancing DFD? Illustrate with an example. (5)
- b) Distinguish between Object oriented and Function oriented design. (5)
- Q5 a) Discuss the desirable characteristics of a good Software Requirements Specification documents. (5)
- b) Discuss the different views that can be modeled using UML. (5)
- Q6 a) Explain in detail about Integration testing. (5)
- b) What are Use cases? Explain how to develop effective Use cases. (5)
- Q7 Discuss the relative merits of ISO 9001 certification and the SEI CMM based quality assessment. (10)

**Q8 Write Short Notes (Any Two)**

**(5 x 2)**

- a) Data Dictionary
- b) Entity Relationship Diagram
- c) Capability Maturity Model Integration
- d) Real-time Software Design

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