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Total Number of Pages : 01

MCA  
MCC403

**4<sup>th</sup> Semester Back Examination 2017-18**  
**SOFTWARE ENGINEERING**  
**BRANCH : MCA**  
**Time : 3 Hours**  
**Max Marks : 70**  
**Q.CODE : C792**

**Answer Question No.1 which is compulsory and any five from the rest.**  
**The figures in the right hand margin indicate marks.**  
**Answer all parts of a question at a place.**

- Q1 Answer the following questions : (2 x 10)**
- a) What is the principal aim of the software engineering discipline?
  - b) What are the short comings of a spiral model?
  - c) Write down the role of a project manager?
  - d) What are the different project estimation techniques?
  - e) What is the difference between object and class?
  - f) Write down the three important parts of an SRS document.
  - g) What are the available risk in software engineering
  - h) What is Beta testing?
  - i) What is Black box testing?
  - j) Explain the difference between software validation and verification.
- Q2 Draw a schematic diagram to represent the iterative waterfall model of software development. on your diagram ,represent the deliverables that need to be produced at the end of each phase? (10)**
- Q3 When does the project planning activity start and end in a software life cycle? list the important activities software project managers perform during project planning. (10)**
- Q4 What is meant by the size of a software project? Why does a project manager need to estimate the size of the project? How is size estimated? (10)**
- Q5 Write down the different type of coupling that might exist between two modules. Give examples of each? (10)**
- Q6 What are the different categories of software development projects according to the COCOMO estimation model? Give examples of software product development projects belonging to each of these categories. (10)**
- Q7 Draw the architecture of a CASE environment and explain how the different tools are integrated. (10)**
- Q8 a) What do you understand by a reliability growth model? (5)**  
**b) Define the terms software reliability and software quality. How can these be measured (5)**