3rd Semester Regular/Back Examination – 2015
SOFTWARE ENGINEERING (SE)
BRANCH(S): MBA
Time: 3 Hours
Max Marks: 70
Q. Code:T461

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) What is the principal aim of the software engineering discipline?
- b) What is structured programming?
- c) What is program module?
- d) What is computer system engineering?
- e) What is a prototype?
- f) What is software process?
- g) List two responsibilities of a software project manager.
- h) What is top-down decomposition?
- i) What is stereotype in UML?
- j) What are design patterns?

Q2 a) Distinguish between software and a program.   (5)
     b) Define flow chart and explain the usefulness of flow chart technique for software development.   (5)

Q3 a) Discuss the major advantages of the Object- oriented design (OOD) methodologies over the data flow oriented design methodology   (5)
     b) Explain why the spiral life cycle model is considered to be a meta model.   (5)

Q4   What is iterative model? Discuss the effort spent in different phases of the iterative waterfall model.   (10)

Q5   List and discuss the different categories of software development projects according to the COCOMO estimation model with suitable examples.   (10)

Q6 a) List the five desirable characteristics of good SRS document.   (5)
     b) Define balancing a DFD. Illustrate with the help of suitable example.   (5)

Q7 a) Distinguish between method overloading and method overriding.   (5)
     b) Distinguish between the static and dynamic models in the context of object oriented modeling of systems.   (5)

Q8   Write Short Notes (Any Two)   (5 x 2)
- a) Classification of Coupling
- b) Black-box Testing
- c) ISO 9000 Certification

d) Six Sigma