M.Tech(CSE) 2nd Semester Examination
June 2014
Concepts of Software Engineering
Subject Code: CSL-522

Before answering the question paper the candidate should ensure that they have been supplied the correct question paper. Complaints in this regard, if any, shall not be entertained after the examination.

Note: First question is compulsory. Attempt two questions from each section A and B.

Q.1 (5x4=20)
(a) What is software engineering? What are the goals of software Engineering?
(b) Discuss the various Software design Concepts.
(c) What do you mean by transaction mapping?
(d) What is the difference between debugging and testing?

SECTION-A
Q2.(a) What do you understand by software development lifecycle? What is the classical sequence of it? (10)
(b) Create ER diagram for online booking system. (10)
Q.3(a) What do you mean by coupling? What problems are likely to be occurring if two modules have high coupling? (10)
(b) What is the project modularity? What are advantages and disadvantages of modularity? (10)

Q.4(a) Explain the term Transform flow, Transaction flow with the help of examples? Also write the difference between them. (15)
(b) Write the difference between database & data warehouse. (5)

Q.5 (a) What are the various project evaluation techniques? (10)
(b) Describe COCOMO model. Suppose a project is to be developed in organic mode and you have estimated the size of product to be about 200,000 LOC. Compute the Effort and development time. (10)

Q 6(a) What do you mean by SCM? Explain all its standards. (10)
(b) Explain Project management vs. quality management (10)

Q.7 (a) What do you mean by white-box testing? Explain all type of white-box testing. (10)
(b) Explain the boundary value analysis testing techniques with the help of an example. (10)