

**BACHELOR OF COMPUTER APPLICATIONS
(BCA) (Pre-Revised)**

Term-End Examination

June, 2015

00463

**CS-70 : INTRODUCTION TO SOFTWARE
ENGINEERING**

Time : 3 hours

Maximum Marks : 75

Note : *Question number 1 is compulsory. Answer any three questions from the rest.*

1. A University offers admission to its certificate, diploma, graduate degree, post-graduate degree and doctoral programmes twice a year, in January and July cycle. Admissions are given according to the merit or entrance examination. After the admission process is completed, students are allocated to the affiliated colleges. To successfully complete a programme, a student needs to appear in the Term End Examinations conducted by the University. The final degree or certificate is awarded by the University. The colleges teach the courses, designed by the University.

- (a) Design an ER diagram. List all the entities, their attributes, cardinality, key constraints, etc. 10
- (b) Design the DFDs upto second level. 10
- (c) Prepare SRS document. List assumptions, if any. 10
2. (a) How is "Risk Management" performed in a software project ? List any six risks of a software project. 8
- (b) Define GUI and explain its various components. What types of errors can occur while designing a user interface ? 7
3. (a) What is meant by 'quality of software' ? Explain the factors which can affect the quality of a software. 7
- (b) List the major project estimation techniques and explain the COCOMO model in detail. 8
4. (a) Explain the concept of project tracking with an example. 7
- (b) Explain the concept of 'reusability' in the context of software engineering. Also, discuss its importance in the CODING phase of software development. 8
5. Write short notes on the following : 3×5=15
- (a) CASE Tools
- (b) Project Outsourcing
- (c) CMM