

**BACHELOR OF COMPUTER  
APPLICATIONS (PRE - REVISED)**

**Term-End Examination**

**December, 2013**

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

*Time : 3 hours*

*Maximum Marks : 75*

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*Note : Question no. 1 is compulsory. Answer any three questions from the rest.*

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1. Design the following for an "E-Commerce solution for an electronic products company" that gives choice to the users to select a/few product(s) from the available range, order them and allow to make the payments online :
  - (a) Design the DfD's (level - 0, 1 and 2) 7
  - (b) Prepare SRS document. List assumptions, if any. 5
  - (c) Design an ER-diagram. List all the entities, attributes , key constraints and cordinality 7
  - (d) Draw a gantt chart. 5
  - (e) Specify the s/w engineering predesign which suits this application development. 6

2. (a) Explain the roles and responsibilities of the following personals in the s/w development process : 10
- (i) Project Manager
  - (ii) Project Leader
  - (iii) System Analyst
  - (iv) Developer
- (b) Explain briefly the s/w review process. 5
3. (a) Explain any two categories of CASE tools. 8
- (b) Explain any two recent developments that has influenced the s/w development methodology. 7
4. (a) Explain the process of software upgradation, once the product is sold out to a customer / company. 7
- (b) Explain various s/w crisis from the user's point of view. 8
5. Write short notes on the following : 3x5=15
- (a) Project scheduling
  - (b) Project standards
  - (c) Benchmark testing
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