

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

**Term-End Examination**

**04054**

**December, 2014**

**BCS-051 : INTRODUCTION TO SOFTWARE  
ENGINEERING**

*Time : 3 hours*

*Maximum Marks : 100*

*(Weightage : 75%)*

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*Note : Question no. 1 is **compulsory** and carries 40 marks. Attempt any **three** questions from the rest.*

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1. (a) Develop SRS for “Library Information System”. Make necessary assumptions. Follow IEEE SRS format. 15
  - (b) Explain the solution design methods in Function Oriented Design. 10
  - (c) Explain Waterfall Model with feedback. 5
  - (d) Write short notes on any **two** of the following : 10
    - (i) Structure Chart
    - (ii) PERT Chart
    - (iii) Software Quality Assurance

2. (a) Draw first two levels of DFDs for a “Library Information System”. Make assumptions wherever necessary. 10
- (b) Differentiate between “Black Box Testing” and “White Box Testing”. Give suitable examples for both types of testing. 10
3. (a) Draw GANTT chart for the development of “Library Information System”. 10
- (b) Explain the rules to create a use case. Apply them to an example. 10
4. (a) Explain any one testing technique and use it to develop a test case for “Library Information System”. 10
- (b) How do you identify necessary utility objects in Object Oriented Design ? 10
5. (a) Explain the different categories of Software Maintenance. 10
- (b) Write short notes on any *two* of the following : 10
- (i) Data Dictionary
  - (ii) Coupling
  - (iii) Cohesion
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