

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

00986

**Term-End Examination**

**June, 2016**

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

*Time : 3 hours*

*Maximum Marks : 100*

*(Weightage : 75%)*

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*Note : Question number 1 is compulsory and carries 40 marks. Attempt any **three** questions from the rest.*

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1. (a) Explain IEEE SRS format and apply it to develop SRS for "Online Railway Reservation System". Make necessary assumptions. 20
- (b) What is Use Case Diagram ? Draw a Use Case Diagram for Bank ATM System. 10
- (c) What is Spiral Model for software development ? Explain its primary activities in brief. 10

2. (a) Draw the first two levels of DFDs for "Online Railway Reservation System". Make necessary assumptions wherever required. 10
- (b) Define the term 'Coupling'. Explain the differences between coupling and cohesion. 10
3. (a) Draw a GANTT chart for the development of "Online Railway Reservation System". 10
- (b) Explain Software Development Life Cycle (SDLC) in brief. 10
4. (a) What is Software Configuration Management ? Explain the necessity of software configuration management in brief. 10
- (b) Write a short note on Software Quality Assurance (SQA). 10
5. (a) What is Function Oriented Design ? Explain the key elements and key features of Function Oriented Design. 10
- (b) Write a short note on Regression Testing. 10
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