

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

Term-End Examination

December, 2018

05193

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

Time : 3 hours

Maximum Marks : 100

(Weightage : 75%)

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

1. (a) What is SRS ? Explain the characteristics of SRS. Develop SRS for an Online Examination System. Make necessary assumptions and follow IEEE SRS format. 20
- (b) Explain the advantages of Spiral model of software development. Describe the nature of software systems which are developed using Spiral model. 10
- (c) What is a class diagram ? Draw a class diagram for a system which maintains attendance of Post-Graduate and Under-Graduate students of an institution. 10

2. (a) Draw first two levels of DFDs for an Online Examination System. Make necessary assumptions. 10
- (b) Explain module testing with the help of an example. 10
3. (a) Draw a Gantt chart for the development of an Online Examination System. 10
- (b) What is Use Case ? Draw a Use Case for Online Ticket Booking for a movie. 10
4. (a) Explain Software Project Control Cycle with the help of a diagram (flow chart). 10
- (b) What is Data Dictionary ? Briefly explain the components of Data Dictionary with the help of an example. 10
5. (a) What is Software Configuration Management ? Briefly explain the activities in software configuration management. 10
- (b) Explain the process of developing Entity Relationship Diagram (ERD) with the help of drawing an ERD for managing Savings Account in a Banking System. Make necessary assumptions. 10
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