

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

**Term-End Examination**

03585

June, 2018

**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) Develop SRS for an "Online Student Admission System". Make necessary assumptions and follow IEEE SRS format. 15
- (b) Draw use case diagram for an "Online Student Admission System". 10
- (c) A University wants to develop an "Online Student Admission System". Explain which software development model is suitable for this and why. 10
- (d) Explain the need of data dictionary in software development. 5

2. (a) Draw a PERT chart for the development of an “Online Student Admission System”. 10
- (b) Draw the first three levels of DFDs for an “Online Student Admission System”. 10
3. (a) What is software testing ? Explain the need of system testing. Also describe the process of system testing. 10
- (b) Describe software quality assurance. 10
4. (a) What is function oriented design ? Explain its main elements and features. 10
- (b) Draw ERD for an “Online Student Admission System”. 10
5. (a) What is software configuration management ? Explain the need for software configuration management. 10
- (b) What is acceptance testing ? Explain alpha testing and its process. 10
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