

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

**Term-End Examination**

**June, 2019**

**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) What is SRS ? Explain the benefits of SRS.  
Develop SRS for Payroll Management System. Follow IEEE SRS format. 20
- (b) What are the key motivating factors for design using object-oriented concept ? 10
- (c) Explain regression testing. 5
- (d) Briefly explain any *two* problems related to software development. 5
2. (a) Draw first two levels of DFDs for "Payroll Management System." 10

- (b) Explain "White Box Testing" and "Block Box Testing" with the help of example. 10.
3. (a) Draw GANTT chart for development of "Payroll Management System." 10
- (b) Explain any *four* debugging strategies. 10
4. (a) Explain the different categories of software maintenance. 10
- (b) What is Software Quality Assurance ? Briefly explain McCall Software Quality Model. 10
5. (a) Write short notes on the following : 10
- (i) Structure chart
- (ii) PERT chart
- (b) What is test case ? Explain test case for functional testing with the help of an example. 10