No. of Printed Pages : 3   **BCS-051**

BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED)
Term-End Examination
December, 2019

BCS-051 : INTRODUCTION TO SOFTWARE ENGINEERING

Time : 3 Hours   *Maximum Marks : 100*

Weightage : 75%

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

1. (a) Explain IEEE SRS format and apply it to develop SRS for an "Online Student Admission System." Make necessary assumptions.

(b) What is Spiral Model ? Explain whether this model is suitable for developing an "Online Student Admission System" or not. 10

(c) Explain the function oriented design using an example. 5

2. (a) What is a Data Dictionary ? Briefly explain the contents of data dictionaries. 6

(b) Define the terms "Coupling" and "Cohesion". Explain the different types of coupling and cohesion. 14

3. (a) What is "acceptance testing" ? Also, explain alpha and beta testing techniques. Differentiate between Unit and Integration testing. 10

(b) Explain the Prototype model with the help of an example. 10

4. (a) Write a short note on Re-engineering. How does it differ from Reverse Engineering ? 10

(b) Explain McCall's Quality factors. 10

5. (a) What is meant by "Software Project Management" ? Explain different tasks involved in it. 10

(b) What is meant by Gantt Chart ? What is meant by Pert Chart ? Explain differences between them. 10