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.   25

(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