6354

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.   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