BACHELOR OF COMPUTER APPLICATIONS (BCA) (Revised)

Term-End Examination

December, 2015

BCS-051 : INTRODUCTION TO SOFTWARE ENGINEERING

Time : 3 hours   *Maximum Marks : 100*

(Weightage : 75%)

Note : Question number **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 Examination System". Make necessary assumptions. *25*

   (b) What is waterfall model for software development ? Explain the situation, in which the spiral model for software development should be preferred over waterfall model. *10*

   (c) What is a class diagram ? Explain with the help of an example. *5*

2. (a) Draw the first two levels of DFDs for an "Online Examination System". Make necessary assumptions. *10*

(b) Draw a GANTT chart for the development of an "Online Examination System". *10*

3. (a) What is 'acceptance' testing ? Explain briefly alpha and beta testing. *10*

(b) Write a short note on software maintenance. *10*

4. (a) Define the term 'Software Quality'. Explain McCall's Software Quality Factors in brief. *10*

(b) What is a static object ? Explain the specifications of static objects for a problem of your choice. *10*

5. (a) What is system testing ? Explain recovery testing and performance testing with the help of examples. *10*

(b) Write a short note on Capability Maturity Models (CMM). *10*