CS-70

BACHELOR OF COMPUTER APPLICATIONS
(BCA) (Pre-Revised)
Term-End Examination

00245

December, 2016

CS-70 : INTRODUCTION TO SOFTWARE ENGINEERING

Time : 3 hours   *Maximum Marks : 75*

*Note : Question number 1 is **compulsory**. Answer any **three** questions from the rest.*

1. (a) Explain the various phases of Spiral Model. What are the differences between Waterfall Model and Spiral Model ?   *10*

    (b) Design a system for online assignment submission and online evaluation of assignments for CS-70 course. Prepare SRS document outline for this system.   *10*

    (c) Design an ER diagram for managing a medical shop. Show all the entities, their attributes and relations between the entities. Make necessary assumptions, if any.   *10*

2. (a) What is a CASE tool ? Explain any two types of CASE tools and their advantages.   *7*

    (b) What is a software crisis ? How is it resolved ?   *8*

3. (a) What is meant by Verification ? How does it differ from Validation ?   7

   (b) What is 4GL ? Explain any three features of 4GL.   8

4. (a) What is a software team ? Explain the advantages and disadvantages of the following team organizations :   7

   (i) Democratic Decentralized

   (ii) Controlled Decentralized

   (iii) Controlled Centralized

   (b) Explain Black Box Testing and White Box Testing.   8

5. Explain the following with respect to software engineering :   *5×3=15*

   (a) Software Maintenance

   (b) Software Evaluation

   (c) Project Outsourcing

   (d) System Analyst

   (e) Portability