BCS-051

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Revised)
Term-End Examination
June, 2021

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) Develop SRS for "Hospital Management System". Make necessary assumptions and follow IEEE SRS format. *15*

    (b) A hospital wants to develop a "Hospital Management System". Explain which software development model is suitable for developing this system. *10*

    (c) What is the need of software maintenance ? Briefly explain different types of software maintenance. *10*

    (d) Draw use case diagram for a "Hospital Management System". Make necessary assumptions. *5*

2. (a) Draw a PERT chart for "Hospital Management System" of a hospital. *10*

   (b) Draw first two levels of DFDs of "Hospital Management System" of a hospital. Make necessary assumptions. *10*

3. (a) Explain System Testing and Integration Testing techniques briefly. *10*

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

4. (a) What is the need of software configuration management ? Briefly explain the process of software configuration management. *10*

   (b) What is Test-case ? Briefly explain the role of Test-case in software testing with the help of test cases for "Hospital Management System". *10*

5. (a) What is Software Project Management ? Explain various tasks involved in it. *10*

   (b) Draw ERD for "Hospital Management System". Make necessary assumptions. *10*

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