

**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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