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BCS-051

**BACHELOR OF COMPUTER
APPLICATIONS (BCA) (REVISED)**

Term-End Examination

June, 2023

**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) Develop SRS for Online Study Center Allocation System (OSCAS) for students who apply for admission to a university. SRS should be in IEEE format. Make necessary assumptions. 25

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- (b) Explain Iterative Enhancement Model with the help of an example. What are its advantages and disadvantages over Spiral Model ? 10
- (c) List the diagrams whose specifications are supported by UML. 5
- 2. (a) Draw the zero and first level DFDs for OSCAS. Make necessary assumptions. 10
- (b) Draw PERT chart for the development of OSCAS. 10
- 3. (a) Draw ERD for OSCAS. Make necessary assumptions. 10
- (b) Draw usecase diagram for OSCAS. 10
- 4. (a) Explain the five solution design principles in function oriented design. 10
- (b) Explain the specification of a static object. 10
- 5. (a) Explain the *five* maturity levels of SEI-CMM. 10
- (b) Briefly, explain ‘Step-Wise’ framework. 10