

**BACHELOR OF COMPUTER APPLICATIONS
(BCA) (Revised)
Term-End Examination
December, 2022**

**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 *Online Examination Form Submission System (OEFSS)*. SRS should be in IEEE format. Make necessary assumptions. 25

- (b) Explain *Prototype Model*, with the help of an example. What are its advantages and disadvantages over *Waterfall Model* ? 10

- (c) What is a *Structure Chart* ? Explain with the help of an example. 5

2. (a) Draw the zero and first level DFDs for OEFSS. Make necessary assumptions. 10
- (b) Draw GANTT Chart for the development of OEFSS. 10
3. (a) Draw ERD for OEFSS. Make necessary assumptions. 10
- (b) Briefly explain different levels of SEI-CMM. 10
4. (a) Explain the terms “Black Box Testing” and “White Box Testing”. 10
- (b) How will you ensure that the software developed by you meets the Quality benchmarks ? Define the term “Software Quality”. 10
5. (a) In Object Oriented Design, list the common utility objects and criteria for identifying utility objects. 10
- (b) Explain various Debugging strategies. 10
-