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*

————