BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED)

Term-End Examination

December, 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 Admission System (OAS)* for a university. SRS should be in IEEE format. Make necessary assumptions.   25

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

(c) What is a Data Dictionary ? What are its contents ? 5

2. (a) Draw the zero and first level DFDs for OAS. Make necessary assumptions. 10

(b) Draw PERT chart for the development of OAS. 10

3. (a) Draw ERD for OAS. Make necessary assumptions. 10

(b) Draw use case diagram for OAS. 10

4. (a) What is meant by function oriented design ? Explain the concepts associated with function oriented design. 10

(b) What is meant by static object ? How will you identify them ? Explain. 10

5. (a) Explain the terms 'Alpha testing' and 'Beta testing'. 10

(b) What is meant by cohesion ? Explain different types of cohesion. 10

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