

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

D-375

B.C.A. (Part-III) Examination, 2023

SOFTWARE ENGINEERING

Paper - BCA-301

Time : 3 Hours]

[Maximum Marks : 70

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 4 × 5 = 20)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **4** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

1. (i) What is Software Process ?
- (ii) Define SRS Component.
- (iii) What is COCOMO ?
- (iv) What is Coupling ?

BRI-179

(1)

D-375 P.T.O.

- (v) Define Metrics.
- (vi) What is Debugging ?
- (vii) Define Alpha Testing.
- (viii) What is CBSE ?
- (ix) What is UML ?
- (x) Define Aggregation.

Section-B

2. What is Prototype ? Draw the schematic diagram of prototype model of software development and describe its phases.

Or

What are the major phases in the spiral model of software development ? Explain.

3. Define model level concept of cohesion.

Or

Define design specification.

4. Explain object orient design concept.

Or

Explain information gathering in debugging process.

5. Explain functional testing.

Or

What is CASE ? Explain three most used CASE tools.

6. Describe UML notations.

Or

Explain Multiplicity.

Section-C

7. What is SRS ? Discuss the need and characteristics of a good SRS document.
8. Discuss the various types of COCOMO Model. Explain the phasewise distribution of effort.
9. Explain debugging process used in software testing phase.
10. What is meant by Testing ? What is the difference between alpha and beta testing ?
11. What is UML Class Diagram ? Describe different elements of class diagram.