

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

SB-380

B.C.A. (Part-III) Suppl. Examination, 2021

SOFTWARE ENGINEERING

Paper - BCA-301

Time : 1½ 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 Engineering ?
- (ii) What is UML ?
- (iii) What are the characteristics of Software ?
- (iv) What is the White Box Testing ?
- (v) What is Estimation ?

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- (vi) What is Prototype Model ?
- (vii) What is full form of COCOMO ?
- (viii) What are the advantages of object oriented design ?
- (ix) What is Debugging ?
- (x) List the Matrics for design model.

Section-B

2. What do you mean by SRS ? Explain with functional and non-functional requirement.

Or

Explain different types of prototyping available in software engineering.

3. Explain function oriented design in detail.

Or

Write short notes on the following :

- (i) COCOMO model
- (ii) Difference between cohesion and coupling

4. What is the debugging ? Briefly explain any *four* debugging strategies.

Or

Explain object oriented concept in detail.

5. Explain testing process and testing criteria.

Or

What is system testing ? Differentiate between black box testing and white box testing.

6. What is UML ? Also explain UML Notation.

Or

Write difference between generalization and aggregation with suitable example.

Section-C

7. What is software quality ? Also explain McCall's quality factor with suitable example.
8. Write notes on the following :
 - (i) Design notation
 - (ii) Design methodology
9. What is Testing ? Explain functional and structural testing technique.
10. What is difference between linear sequential and prototype model ?
11. Write notes on the following :
 - (i) CASE Tool
 - (ii) CBSE