

Roll No.

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D-3858

B. C. A. (Part III) EXAMINATION, 2020

Paper Sixth

SOFTWARE ENGINEERING

(304)

Time : Three Hours]

[Maximum Marks : 100

[Minimum Pass Marks : 40

Note : Attempt any *two* parts from each Unit. All questions carry equal marks.

Unit—I

1. (a) Define Software Engineering. Discuss the software crises also.
- (b) Explain prototype model. How does it differ from Waterfall model ?
- (c) Describe the iterative model in detail.

Unit—II

2. (a) What do you mean by Software Metrics ? Describe the function oriented metrics.
- (b) Discuss the size oriented metrics.
- (c) Explain the COCOMO model with example.

Unit—III

3. (a) Explain the software requirement standards in brief.

- (b) What is SRS ? What are the needs of SRS ?

- (c) Describe the context diagram with suitable example.

Unit—IV

4. (a) What is Abstraction ? Explain different levels of abstraction.
- (b) Define coupling and explain the different types of coupling also.
- (c) Which coding rules are applied for software development ? How are codes verified ?

Unit—V

5. (a) Discuss Software Testing. Explain the various levels of testing.
- (b) Differentiate between black box testing and white box testing.
- (c) Define error, fault and failure. Does testing observe fault or failure ?

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