

Roll No.

E-3916

B. C. A. (Part III) EXAMINATION, 2021

(New Course)

Paper Fourth

SOFTWARE ENGINEERING

(304)

Time : Three Hours]

[Maximum Marks : 80

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

Unit—I

1. (a) Define software and software engineering. Explain software development paradigm.
- (b) Explain software requirements specification (SRS).
- (c) Write short notes on the following :
 - (i) Partitioning and Projection
 - (ii) Object Oriented Analysis

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Unit—II

2. (a) What are the concepts of the following :

(i) Cohension

(ii) Coupling

What is their impact on the software design process ?

(b) Explain object oriented design Booch approach.

(c) Explain the design metrics and design documentation standards in brief.

Unit—III

3. (a) What is case tools ? Discuss their importance in software development.

(b) Describe various symbols used in DFD. What is described in first and second level of DFD ?

(c) Explain the re-engineering legacy systems and coding standards.

Unit—IV

4. (a) How is cost of software estimated ? Discuss.

(b) Why is software testing required ? Differentiate between white box and black box testing.

(c) Write short note on the following :

(i) Debugging and reliability analysis

(ii) COCOMO model

[3]

Unit—V

5. (a) What is the need of planning for a software project ?
Write the major issues of the planning of project.
- (b) Explain the project monitoring and controls.
- (c) Write short notes on the following :
- (i) Integrating software
 - (ii) Software project teams