

Roll No.

Exam Code : J-21

Subject Code—53411

B. Sc. EXAMINATION

(Batch 2018 Onwards)

(Main & Re-appear)

(Fourth Semester)

COMPUTER SCIENCE

CCsL-404

Software Engineering

Time : 3 Hours

Maximum Marks : 80

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory. All questions carry equal marks.

1. (a) Define Software Development Process ?
- (b) What is role of Feasibility Study in SRS ?
- (c) Explain the term Software Maintenance.
- (d) Explain any *two* types of testing.
- (e) Describe Prototype Model.

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- (f) What is Software Crisis ?
- (g) Differentiate Design and Coding.
- (h) What is Validation Testing ? $8 \times 2 = 16$

Unit I

- 2. Explain the importance of Software Engineering ? Why a systematic development of Software is needed ? 16
- 3. Discuss various phases of Software Development Life Cycle ? Discuss each phase in detail. 16

Unit II

- 4. What are the components and structure of System Requirement Specification (SRS) ? 16
- 5. Explain the following : 16
 - (a) Data Flow Diagram
 - (b) Decision Trees.

Unit III

- 6. How does COCOMO model play an important role in Cost Estimation ? 16

7. What is Maintenance Process in Software Development ? Explain various characteristics of Maintenance process ? 16

Unit IV

8. Write a short note on Software Testing Process ? Discuss any *two* types of testing ? 16
9. What are test cases in Software Testing ? Explain Boundary Value Analysis ? 16