Exam Code : M-24

Subject Code—61415

B.Sc. EXAMINATION

(Main/Reappear) (Batch 2019 Onwards)

(Fourth Semester)

COMPUTER SCIENCE

CCsL-404

Software Engineering

Time : 3 *Hours* *Maximum Marks* : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

1. Define the following : **2×8=16**

   (i) Software

   (ii) Waterfall model

   (iii) Need for SRS

   (iv) DFD

(v) COCOMO model

(vi) Risk management

(vii) Test case

(viii) Level of testing.

Unit I

2. Describe the various phases in software development. 16

3. What is a prototype model ? Under what circumstances is it beneficial to construct a prototype model ? 16

Unit II

4. Explain the feasibility studies. What are the outcomes ? Does it have either implicit or explicit effects on software requirement collection ? 16

5. Explain software Requirement Specification. 16

Unit III

6. What do you mean by process planning and project scheduling ? How PERT charts are used to plan the scheduling of project ? **16**

7. Discuss the concept of software maintenance process. **16**

Unit IV

8. Explain Unit Testing and Integration Testing with suitable diagram. **16**

9. What is system testing ? Discuss the differences between black box and white box testing. **16**