B.Sc. Semester-IV Examination, 2022-23 COMPUTER SCIENCE [Honours]

Course ID: 41512 Course Code: SH/CSC/402/C-9

Course Title: Software Engineering

Time: 1 Hour 15 Minutes Full Marks: 25

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

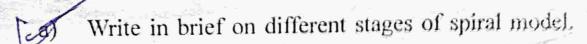
UNIT-I

- 1. Answer any five of the following questions: $1 \times 5 = 5$
 - a) What is software engineering?
 - b) What is the full form of CMMI?
 - Write down one advantage of waterfall model.
 - What is computer software?
 - e) What are function points?
 - What is SRS?
 - g) Define ERD.
 - h) What is the full form of SDLC?

UNIT-II

2. Answer any two of the following questions:

$$5 \times 2 = 10$$



- b) What are the different types of risks management in software?
- c) Write short note on COCOMO model.
- d) Define modular coupling and cohesion.

UNIT-III

3. Answer any one of the following questions:

$$10 \times 1 = 10$$

a) Define testing. What is testability of software? What is unit testing? Define white-box and black-box testing.



Write short notes on:

$$5 \times 2 = 10$$

- i) DFD
- ii) SRS