

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?
- c) Write down one advantage of waterfall model.
- d) What is computer software?
- e) What are function points?
- f) What is SRS?
- g) Define ERD.
- h) What is the full form of SDLC?

[Turn Over]

UNIT-II

2. Answer any **two** of the following questions:

5×2=10

- a) Write in brief on different stages of spiral model.
- 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:

10×1=10

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

2+2+3+3

- b) Write short notes on:

5×2=10

- i) DFD
- ii) SRS