

**B.Sc. Semester-IV (Honours) Examination, 2023-24**  
**COMPUTER SCIENCE**

**Course ID: 41512**

**Course Code: SH/CSC/402/C-9**

**Course Title: Software Engineering (Syllabus: 2017-18)**

**Software Engineering Concepts (Syllabus: 2022-23)**

**Time: 1 Hour 15 minutes.**

**Full Marks: 25**

The figures in the margin indicate full marks.

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

1. Answer *any five* of the following questions:  $(5 \times 1 = 5)$

- a) What do you mean by software engineering?
- ☒ b) Define SDLC.
- ☒ c) What is Function point?
- ☒ d) What is programming?
- ☒ e) Define SRS.
- ☒ f) Define Waterfall model.
- ☒ g) Define COCOMO model?
- ☒ h) What is DFD?

2. Answer *any two* of the following questions:  $(5 \times 2 = 10)$

- ☒ a) Write a short on:  
Spiral model  
Prototyping model
- b) Write about risk identification and assessment.
- c) Describe SCCS.
- ☒ d) Define various testing.

*[Turn Over]*

3. Answer *any one* of the following questions: (1×10 = 10)

a) Why we should study software engineering? Why we use a life cycle model? Write about data flow-oriented design and Object-oriented design. 2+3+5

b) Write in brief about waterfall model. Write difference between coding and unit testing. 5+5