



Avinashilingam Institute for Home Science and Higher Education for Women
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)
Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, category I by UGC
Coimbatore - 641 043, Tamil Nadu, India.

Continuous Internal Assessment I – August 2025
V SEMESTER

Class : III UG
Major: Computer Science

Time : 2 Hours
Max Marks: 60

21BCSC23 Software Engineering

Course Outcomes:

- CO1. Acquire strong fundamental knowledge in software engineering.
CO2. Ability to apply software engineering principles, techniques, tools and practices.
CO3. Effectively demonstrate competence in communication, planning, analysis, design, construction, testing and deployment.
CO4. Adapt to new emerging technologies and methodologies.
CO5. Cope up with software quality standards.

Part – A

6x 1=6

Choose the correct answer

1. Which attribute of S/W is for to run on any system architecture or platform? CO1-K2
a. Reliability b. Portability c. Usability d. Maintainability
2. SDLC stands for Software _____ Life Cycle. CO2-K1
a. Driven b. Development c. Deployment d. Demonstration
3. Which process framework is particularly well-suited for complex projects with high levels of uncertainty and risk? CO2-K1
a. Waterfall b. Spiral c. Agile d. Incremental
4. Which software process model is designed to complete a project in 60-90 days? CO2-K1
a. Waterfall b. RAD c. Spiral d. Incremental
5. Tasks in SCRUM are called as _____. CO2-K1
a. Features b. Sprints c. Backlogs d. Functions
6. SRS stands for _____. CO3-K2
a. Software Requirements Specification b. Software Reliability Specification
c. Software Reengineering Specification d. Software Resilience Specification

Part B

3 x 6 = 18

Answer ALL questions

Each answer should not exceed 400 words or two pages

7. a. Outline the characteristics of Software. CO1-K1
(OR)
7. b. Explain the Layered Technology of Software Engineering. CO1-K1
8. a. Differentiate between TSP and PSP. CO2-K3
(OR)
8. b. Explain the Waterfall Model with a diagram. CO2-K2
9. a. Present the Agile Modeling Principles. CO2-K1
(OR)
9. b. Write on Software Engineering practices. CO2-K1

Part C

3 x 12 = 36

Answer ALL questions

Each answer should not exceed 800 words or four pages

10. a. Explain in brief about Process Framework Activities. CO1-K1
(OR)
10. b. Discuss the software process assessment levels of CMMI. CO1-K1
11. a. Explain the incremental process model with a suitable diagram. CO2-K2
(OR)
11. b. Explain the spiral process model with a suitable diagram. CO2-K2