



Maintain

**Avinashilingam Institut** for Home Science and Higher Education for Women  
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)  
Re-accredited with A++ Grade by NAAC. Recognised by UGC Under Section 12B  
Coimbatore - 641 043, Tamil Nadu, India  
Continuous Internal Assessment I – August 2024

**Class : III UG**

**Major: Computer Science /Computer Applications**

**Time : 2 Hours**

**Max Marks: 60**

**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.

**21BCSC23 /21BCAC20 Software Engineering**

**Part – A**

**6x 1=6**

**Circle the correct answer**

1. Which attribute that bears on the ability of software to be transferred from one environment to another? CO1-K2  
a. Reliability      b. Portability      c. Usability      d. Maintainability
2. Each framework activity is executed in a circular manner in \_\_\_\_\_ Process Flow. CO1-K1  
a. Linear      b. Iterative      c. Evolutionary      d. Parallel
3. SDLC stands for Software \_\_\_\_\_ Life Cycle. CO2-K1  
a. Driven      b. Development      c. Deployment      d. Demonstration
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. Requirements change over time and this is called as problem of \_\_\_\_\_. CO3-K2  
a. Change      b. Scope      c. Volatility      d. Understanding

**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 and various levels of CMMI. CO1-K1
- 11.a. Explain the incremental process model with a suitable diagram. CO2-K2  
(OR)
11. b. Explain the evolutionary process models with suitable diagrams. CO2-K2
- 12.a. Explain the Agile Process Models: Extreme Programming (XP) and SCRUM. CO2-K1  
(OR)
12. b. Discuss the various tasks involved in Requirements Engineering. CO3-K1

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**Staff-In-Charge: Dr.G.Sudhamathy, Dr.M.Thilagu & Dr.D.Ambika**

**Campus-I- 60**

**Campus-II – 65 + 66**