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 Test I – February 2026
VI Semester

Class : III UG | **Time: 2 hours**
Major : Computer Applications | **Maximum Marks: 60**

23BCAC11 Software Engineering

Course Outcomes:
At the end of the course, students will:
1. Acquire fundamental knowledge in software engineering and differentiate the various processes.
2. Effectively demonstrate competence in communication, planning, analysis, design, construction, testing and deployment.
3. Understand the basic requirements and issues in design concept.
4. Gain knowledge in software quality assurance and formulate the software testing strategies.
5. Analyse the project scheduling and risk management.

Part - A **6 x 1 = 6**
Choose the Correct Answer

1. The main objective of the Modeling activity is to _____ CO1 K1
   a. deliver the software b.Write source code
   c.create representation of the system d.allocate resources
2. Scrum uses fixed-length iterations called _____ CO1 K1
   a. phases b. modules c. sprints d. milesstones
3. Inception in Requirements Engineering involves _____ CO2 K1
   a. Detailed design b. Identifying stakeholders and goals
   c. Coding modules d. Writing test cases
4. Validation ensures that requirements _____ CO2 K1
   a. Are implemented in code b. Match customer needs
   c. Reduce development time d. Increase system complexity
5. Software architecture defines _____ CO3 K1
   a. Coding standards b. Overall system structure and relationships
   c. Test procedures d. User manuals
6. Modularity in software design aims to _____ CO3 K1
   a. Combine all functions into one module b. Divide the system into manageable components
   c. Eliminate reuse d. Increase dependency

Part - B **3 x 6 = 18**
Answer ALL Questions
Each answer should not exceed 400 words or two pages

7. a. List and Explain the framework activities of a generic process model. CO1 K2
   (or)
   b. Describe in detail about personal and team process models. CO1 K1

8. a. Write short notes on Requirements Management. CO2 K3
   (or)
   b. Discuss about recognizing multiple viewpoints and working toward collaboration. CO2 K3

9. a. Write short notes on data modeling concepts. CO3 K3
   (or)
   b. Explain in brief about abstraction and modularity. CO3 K3

Part - C **3 x 12 = 36**
Answer ALL questions
Each answer should not exceed 800 words or four pages

10. a. Explain in detail about Prescriptive Process Models. CO1 K2
    (or)
    b. Discuss in detail about Agile process models. CO1 K2

11. a. List and Explain in detail about Software Engineering Practices. CO2 K2
    (or)
    b. Explain about Requirements Engineering Tasks. CO2 K2

12.a. Explain the different approaches of Requirement Modeling in Software Engineering. CO3 K2
    (or)
    b. Discuss in detail about evolution of software design. CO3 K2