



7/12
Sambath

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

IV Semester

Class : II UG
Major : B.Sc. Computer Science

Time: 2 hours
Maximum Marks: 60

23BCSC08 Software Engineering

Course Outcomes:

At the end of the course, students will:

1. Acquire strong fundamental knowledge in software engineering.
2. Ability to design the software projects in objects oriented models.
3. Effectively demonstrate competence in Problem-Solving Approaches.
4. Adapt to new emerging technologies and methodologies.
5. Assuring software quality standards based on various testing strategies.

Part - A

6 x 1 = 6

Choose the Correct Answer

1. Which of the following is not considered one of the key characteristics of software? CO1 K2
a. Maintainability b. Reliability c. Efficiency d. Performance of hardware components
2. Which of the following design strategies focuses on breaking down a system into smaller, manageable components that can be developed and tested independently? CO2 K3
a. Top-down design b. Bottom-up design c. Modularity d. Iterative design
3. Which of the following best describes the key difference between a process and a project? CO3 K2
a. A project is a one-time, specific endeavor with a defined start and end, while a process is a continuous, repetitive set of activities.
b. A process is focused on achieving a specific goal, while a project is focused on day-to-day operations.
c. A project is shorter in duration than a process.
d. A project can be managed without a defined methodology, while a process requires one.
4. Which of the following best describes the evolving role of software in modern industries? CO1 K3
a. Software is primarily used for basic data storage and processing tasks.
b. Software is mainly responsible for automating routine tasks with minimal human intervention.
c. Software is integral to enhancing business strategies, customer experience, and operational efficiency.
d. Software has little impact on industries outside of the technology sector.
5. Which of the following is not typically considered a key aspect of design quality? CO2 K1
a. Usability b. Maintainability c. Scalability d. Budget constraints
6. What is the primary purpose of assessing a process in software development? CO3 K2
a. To evaluate the technical performance of the development tools used
b. To identify the strengths and weaknesses of the development process and ensure continuous improvement
c. To reduce the number of team members involved in the development
d. To finalize the project budget and timeline

Part - B

3 x 6 = 18

Answer ALL Questions

Each answer should not exceed 400 words or two pages

7. a. Write notes on Linear Sequential Development Model. CO1 K3
(or)
7. b. Explain the various Software Applications. CO1 K2
8. a. Discuss the concept of Data Dictionaries. CO2 K2
(or)
8. b. Explain the Object Oriented Design with an example. CO2 K5
9. a. Explain Architectural Design. CO2 K3
(or)
9. b. Discuss the overview of the assessment process. CO3 K4

Part - C

3 x 12 = 36

Answer ALL questions

Each answer should not exceed 800 words or four pages

10. a. Discuss on the concept of Iterative Development Model and Incremental Development Model in detail. CO1 K3
(or)
10. b. Explain the Various Software Development Approaches. CO1 K4
11. a. Elaborate the various Software Design Principles. CO2 K4
(or)
11. b. Explain the various Data Flow Models with examples. CO2 K5
12. a. Write Short notes on semantic data model and object data model. CO2 K4
(or)
12. b. What is the Need for a Business Model and the Dimension of Time in Software Engineering. CO3 K5

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Staff in-charge: Dr. G. Sudhamathy, Mrs. Sangeetha Priya

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IT BSc (cs)
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