

23BCS452

**UG PROGRAM (4 YEARS HONORS) WITH SINGLE MAJOR
AT THE END OF FOURTH SEMESTER
COMPUTER SCIENCE - OBJECT ORIENTED SOFTWARE ENGINEERING (Minor)
(W.e.f. Admitted Batch 2023-24)**

Time: 3 Hours

Maximum: 70 marks

SECTION - A

Answer Any FIVE Questions.

5x4=20

1. Define Class and Object.
2. Define Scenarios.
3. Write the major steps to construct software.
4. What is Software version control?
5. What is Aspect Oriented Programming (AOP).
6. Explain State Machine diagram.
7. Define Integration Testing.
8. Explain about Code Review and Inspection.

SECTION - B

Answer ALL Questions.

5x10=50

9. (a) Discuss about the overview of Software Engineering.

(Or)

- (b) What are the core concepts of Object Oriented Programming(OOP).

10. (a) What is the purpose of requirements analysis and specification in software development.

(Or)

- (b) Write about Class diagram and Activity diagram.

11. (a) What are the fundamental principles of Software construction.

(Or)

- (b) Discuss about Object Oriented Programming Languages.

12. (a) Explain about Software evolution and Reengineering.

(Or)

- (b) How do refactoring techniques enhance software maintainability?

13. (a) Briefly explain about component based Software Engineering.

(Or)

- (b) How do Scrum methodologies support iterative and incremental development.