

23BCS402

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

Time: 3 Hours

Maximum: 70 marks

SECTION – A

Answer any FIVE Questions.

5x4=20

1. Write a short note on Object Oriented Programming.
2. Write about Use cases.
3. Write about Test-Driven Development (TDD).
4. Explain about Code Review.
5. What is Agile Software Development.
6. Write about Objects of Oriented Software Engineering.
7. What is Polymorphism?
8. Write a short note on C++.

SECTION – B

Answer All Questions.

5x10=50

9. (a) Explain about Software Development Life Cycle (SDLC).

(Or)

- (b) What are the basics of Unified Modelling Language?

10. (a) Discuss about Design Patterns.

(Or)

- (b) Explain about Class diagram and Sequence diagram in detail.

11. (a) Briefly explain about Unit testing and System testing.

(Or)

- (b) Explain about Object Oriented design principles.

12. (a) What are the primary objectives of Software maintenance and evolution?

(Or)

- (b) What are the fundamental aspects of Software maintenance?

13. (a) What is the role of Model-Driven Engineering (MDE) in Software Development?

(Or)

- (b) How does Aspect- Oriented Programming (AOP) enhance modularity in Software?