

**Third Semester FYUGP Degree (Reg) Examination November
2025**

**KU3DSCCSC204 - BASICS OF OBJECT ORIENTED
PROGRAMMING USING C++**

2024 Admission onwards

Time : 1.5 hours

Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. Define OOP
2. Define object
3. State the purpose of the break statement inside a loop.
4. Which loop is called an exit-controlled loop in C++?
5. What is compile time polymorphism?
6. What is abstract class?
7. What is the purpose of a friend class in C++?
8. What is the main purpose of inheritance?

Section B

Answer any 4 questions. Each carry 6 marks.

9. Distinguish between virtual function and pure virtual function
10. Differentiate class and abstract class
11. Differentiate static binding and dynamic binding
12. Write a C++ program to demonstrate the use of a friend function.
13. Differentiate hybrid and hierarchical inheritance with programs.
14. Differentiate between multiple and multilevel inheritance with diagrams.

Section C

Answer any 1 questions. Each carry 14 marks.

15. Design a C++ program that accepts student details (Roll Number, Name, Age, Gender, and Marks in 3 subjects) from the user, and then displays all the details along with total mark and average.
16. Create a C++ program to define a class Car with data members model, year and price. Define member functions outside the class to assign and display values.