



23127027

QP CODE: 23127027

Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE  
EXAMINATIONS, OCTOBER 2023**

**Third Semester**

B.Sc Physics Model II Computer Applications

**VOCATIONAL COURSE - CA3VOT05 - CONCEPTS OF OBJECT ORIENTED  
PROGRAMMING**

2017 Admission Onwards

AB678142

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. What is cascading?
2. What are default arguments?
3. Define class. Give examples.
4. What is member function in C++?
5. Why we want to use constructors ?
6. What are parameterized constructors?
7. How the Copy Constructors are useful ?
8. What is destructor?
9. List the operators that cannot be overloaded.
10. What is the meaning of Inheritance ?
11. How to declare and initialize a pointer?
12. Write the meaning of Pure Virtual function.

(10×1=10)

**Part B**

*Answer any **six** questions.*

*Each question carries **5** marks.*



13. Write a program to accept an integer number of 6 digits and print the sum of its individual digits.
14. What are the basic data type that are supported in C++
15. Explain control structures in c++ with syntax.
16. With suitable programming example describe arrays within a class.
17. Briefly explain static member functions with their rules.
18. Can we have more than one constructor in a class? Explain.
19. Write a note on dynamic constructor.
20. Differentiate between unary and binary arithmetic operators. Give examples for each.
21. Describe virtual base class with an example.

(6×5=30)

#### Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Explain the basic concepts of Object Oriented Programming languages.
23. What is a friend function? What are characteristics of a friend function? Illustrate with an example.
24. Explain hybrid inheritance. How can the repeated inheritance of member function to the derived class in hybrid inheritance be avoided? Explain with example.
25. Narrate Pointers and strings and Pointers to functions with suitable examples.

(2×10=20)