

QP CODE: 24026924



Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE  
EXAMINATIONS, OCTOBER 2024**

**Third Semester**

B.Sc Physics Model II Computer Applications

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

2017 Admission Onwards

9803A588

Time: 3 Hours

Max. Marks : 60

core

**Part A**

*Answer any **ten** questions.*

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

1. What is encapsulation?
2. Write the purpose of Function Prototypes.
3. What is the use of dot operator in C++?
4. What is meant by Static data member ?
5. What is a constructor?
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. Explain multilevel.
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. Describe the structure of C++ program.
14. Explain basic data types in c++.
15. Explain control structures in c++ with syntax.
16. Explain different ways of defining member function.
17. Define memory allocation for objects.
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 the implementation of Dynamic memory allocation.

(6×5=30)

### Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Explain about the operators in c++.
23. What is a friend function? What are characteristics of a friend function? Illustrate with an example.
24. What is inheritance ? Explain single, multiple, multilevel, hierarchical and hybrid inheritance with syntax.
25. Explain with example how pointers can be used to access member functions of a class.

(2×10=20)