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)