B.Sc DEGREE (CBCS)EXAMINATION, MARCH 2021

Third Semester

B.Sc Physics Model II Computer Applications

Vocational Course - CA3VOT05 - CONCEPTS OF OBJECT ORIENTED PROGRAMMING

2017 Admission Onwards

7DBFCACD

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What are Operator functions?

2. What is private member function?

3. Explain private member functions.

4. What is meant by Static data member ?

5. Explain constructor.

6. What are parameterized constructors?

7. How the Copy Constructors are useful ?

8. What is destructor?

9. Define operator overloading.

10. What are derived classes?

11. What are the operators used for dynamic memory allocation of pointers?

12. Write the meaning of Pure Virtual function.

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Explain basic data types in c++.

14. Explain control structures in c++ with syntax.

15. Explain inline function.

16. How objects are created? Explain.

17. With suitable programming example describe arrays within a class

18. Explain how multiple constructors can be used in a class?

19. Write a note on dynamic constructor

20. Describe virtual base class with an example.

21. Explain declaraction and initialization of pointers.

$(6 \times 5 = 30)$

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. Write a program to overload + binary operator for complex numbers

25. What is the importance of inheritance in C++? Explain various inheritances with suitable example.

$(2 \times 10 = 20)$