SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN (AUTONOMOUS)
(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.
M.Sc. - END SEMESTER EXAMINATIONS APRIL - 2022
SEMESTER - I
20PAMCT1003 - Programming in C++

Total Duration : 3 Hrs.   **Total Marks : 60**

Section A

Answer any **SIX** questions $(6 \times 5 = 30$ Marks)

1. Enumerate the basic concept of OOPS in detail.
2. Explain the inline function and its advantage in C++.
3. How do you overload the function in C++? Explain with example.
4. Why do you need Virtual function? Explain with suitable example.
5. Write about command line argument in C++ with example.
6. Elucidate different types of operators with example in C++ .
7. Write a C++ program to add complex numbers by overloading the '+' operator.
8. Why do you need type conversion? Mentions the methods of converting data types with example.

Section B

Part A

Answer any **TWO** questions $(2 \times 10 = 20$ Marks)

9. Illustrate control statement in C++ with example.
10. State the rules of friend function. Include all rules in the example.
11. List out different types of constructors in C++. Explain copy constructors with suitable example
12. Discuss briefly the error handling functions during file operations in C++ .

Part B

Compulsory question $(1 \times 10 = 10$ Marks)

13. Sketch the different types of Inheritance in C++. Compare and write Multiple and multilevel inheritance with example.

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