B.C.A. DEGREE EXAMINATION,APRIL 2020
I Year II Semester
Object Oriented Programming with C++

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Define Data Abstraction.
2. What is dynamic binding?
3. List the features of OOP.
4. Give an example for cascading I/O operations.
5. What is the use of Union data structure?
6. Define static member function.
7. What is a virtual base class?
8. Give the use of abstract classes.
9. What is the use command line argument?
10. Specify any two file modes and their use.
11. What are pure virtual functions?
12. What is the use of pointers to arrays?

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Write about the applications of OOP.
14. Discuss about various control structures in C++.
15. With an example program explain function overloading.
16. Differentiate multiple and multilevel inheritance with appropriate examples.
17. Discuss about random access files.
18. Write about Friend function with an example.
19. Elaborate on Pointers.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Highlight the basic concepts of OOP and their features.
21. With example programs explain the difference between call by value and call by reference.
22. Explain about constructors.
23. Analyze the importance of runtime polymorphism with an example.
24. Discuss about file stream operations.

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