E 5755 (Pages : 2) Reg. No.....

Name.....

B.C.A./B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2018

Third Semester

OBJECT ORIENTED PROGRAMMING AND C++

(Common for B.C.A. and B.Sc. Computer Applications)

[2013 to 2016 Admissions]

Time : Three Hours Maximum Marks : 80

Part A (Short Answer Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. Who developed C++ ?
2. What is the size of wchar_t in C++ ?
3. The size of an object or a type can be determined using which operator.
4. What is the other name for overloading ?
5. What is the use of function call operator ?
6. What is the index number of the last element of an array with 9 elements ?
7. How many specifiers are present in access specifiers in class ?
8. Which keyword is used to inherit properties from one class into another ?
9. What should be used to point to a static class member ?
10. What operation can be performed by destructor ?

(10 × 1 = 10)

Part B (Short Answer Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What are objects ?
12. What is dynamic binding or late binding ?
13. Give any four applications of OOPS.
14. What are manipulators ?
15. What is function prototype ?
16. How the objects are used as function argument ?
17. What is function overloading ?
18. Define Constructor.

19. What is function template ?
20. What is meant by inheritance ?
21. What is compile time polymorphism ?
22. What is meant by sequence containers ?

(8 × 2 = 16)

Part C (Short Essay Type Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. What are the advantages of Object Oriented Programming ?
24. What is an expression ?
25. What is meant by type conversion ? Explain.
26. How can a common friend function to two different classes be declared ?
27. Describe the different modes in which files can be opened in C++.
28. Differentiate between call by value and call by reference.
29. The keyword 'virtual' can be used for functions as well as classes in C++. Explain the two different uses.
30. What are the keywords on which exception handling is built ? Explain each one of them.
31. Explain the I/O stream hierarchy in C++.

(6 × 4 = 24)

Part D (Long Essays)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Explain the main features of object oriented programming.
33. Explain various data types supported by C++.
34. Differentiate and give examples to bring out the difference between.
35. Explain the different types of inheritance in C++.

(2 × 15 = 30)