



K20U 0348

Reg. No. :

Name :

II Semester B.C.A. Degree (CBCSS – Supple./Improv.) Examination, April 2020
(2014 – 2018 Admissions)

Core Course

2B03 BCA : OBJECT ORIENTED PROGRAMMING USING C++

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer **all** questions. **Half** mark **each**.

1. a) _____ symbol is used as put to operator.
- b) The default return type of all functions in C++ is _____.
- c) Constructors can't be virtual. True or False.
- d) The pointers which are not initialized in a program are called _____.
- e) _____ function is used to decide array size at runtime.
- f) File mode parameter ios:: replace is used for _____.
- g) Give an example for embedded assignment.
- h) Mechanism of deriving a class from another derived class is known as _____.

SECTION – B

Answer **any 7** questions. **2** marks **each**.

2. What are the applications of C++ ?
3. How do you use default arguments in a function ?
4. What are the advantages of using functions ?
5. Explain reference variable with a suitable example.

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- 6. What is destructor ?
- 7. What are the functions used for the manipulation of file pointers ?
- 8. What is meant by privately inherited ?
- 9. Write a note on array of objects.
- 10. What is an abstract class ?
- 11. What is stream ?

SECTION – C

Answer **any 4** questions. **3** marks **each**.

- 12. What are the advantages of using OOP ?
- 13. Write a program to find the number of objects created based on a class.
- 14. How do you use constructors in derived classes ? Give an example.
- 15. Write a program to add two complex numbers using operator overloading.
- 16. Discuss about the stream classes used for file operations.
- 17. Explain virtual base class.

SECTION – D

Answer **any 2** questions. **5** marks **each**.

- 18. Write a program to convert a time in 24 hour clock to a time in 12 hour clock using type conversion routine.
- 19. Explain the different data types and data type qualifiers in C++.
- 20. Discuss about different formatted console I/O operations.
- 21. Explain friend function and virtual function.