

Roll No. ....

Total No. of Questions : 9]  
(2102)

[Total No. of Printed Pages : 4

**BCA (CBCS) RUSA IIIrd Semester  
Examination**

**3994**

**OBJECT ORIENTED PROGRAMMING WITH  
C++  
BCA-304**

**Time : 3 Hours]**

**[Maximum Marks : 70**

*Note :-* Attempt *five* questions in all. Question No. 1 (Part A) is compulsory containing 10 fill in the blanks of 1 mark each and *five* short answer questions of 4 marks each. Select *one* question each from Parts-B, C, D and E.

**Part-A**

**(Compulsory Questions)**

1. Fill in the blanks :

- (i) Objects is a/an ..... of a class.
- (ii) The process of building new class from existing ones is called .....

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- (iii) In function overloading, two functions can have the same ..... in a program.
- (iv) A class is a collection of ..... and .....
- (v) A bool value returns ....., or .....
- (vi) The ..... statement allows a program to make a decision.
- (vii) The ..... operator compares two values for equality.
- (viii) The qualifier used to declare constants in C++ is .....
- (ix) ..... operator in C++, requires three operands.
- (x) Variable of a class are called .....  $1 \times 10 = 10$

Short answer type questions (25 to 50 words) :

- (i) What is the basic structure of a C++ program ?
- (ii) What are the various Arithmetic Operators in C++ ?
- (iii) Explain the keywords in C++.

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- (iv) What is Operator Overloading ? Explain with example.
- (v) Explain various relational operators in C++.  $4 \times 5 = 20$

#### Part-B

##### Unit-I

- 2. Explain the concept of object oriented programming language. Distinguish the OOP language from procedural language. 10
- 3. (i) What are Operators ? Explain various operators of C++ in detail.
- (ii) What are comments in C++ ? Explain.  $6 + 4 = 10$

#### Part-C

##### Unit-II

- 4. (i) Write a program in C++ to add first 10 natural numbers.
- (ii) Explain goto control statement with example.  $6 + 4 = 10$
- 5. (i) Explain enumerated data type with example.
- (ii) Explain Functions. How the arguments passed to a function and how it relations the values ?  $6 + 4 = 10$

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## Part-D

### Unit-III

6. (i) Define Objects. Explain how C++ objects works as data types.
- (ii) Explain the concept of constructor. How the constructors are used ?  $5+5=10$
7. (i) Explain the concept of array. Describe array elements.
- (ii) Write a program in C++ to add two 1-dimenssional arrays.  $5+5=10$

## Part-E

### Unit-IV

8. (i) Explain Operators. Define the concept of operator overloading with the help of example.
- (ii) Explain how binary operators are overloaded.  $6+4=10$
9. (i) Explain multiple inheritance. Explain the concept of ambiguity in multiple inheritance.
- (ii) Define the concept of aggregation. Explain different levels of inheritance.  $5+5=10$