

Total No. of Questions : 9]
(2021)

Roll No.

[Total No. of Printed Pages : 4

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

4045

**OBJECT ORIENTED PROGRAMMING WITH
C++
BCA-0304**

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 Question)

1. Fill in the blanks :

- (i) In C++, are the variables of the type class.

C-592

(1)

Turn Over

- (ii) The insulation of the data from direct access by the program is called
- (iii) Polyorphism means the ability to take more than one form.
- (iv) The process by which the objects of one class acquire the properties of objects of another class is known as Single Inheritance
- (v) The smallest individual units in a program is known as
- (vi) In C++, Construct allows that we can have more than one function with the same name in our program.
- (vii) By default, the members of a class are private.
- (viii) A Encapsulation is a way to bind data and its associated functions together.
- (ix) A member function can be called by using its name inside another member function of the same class, is known as Object of member functions.

- (x) A static member function can have access to the members declared in the same class and can be called using the class name.

1×10=10

Short answer type questions (25 to 50 words) :

- (i) What do you mean by Identifiers ? Explain.
- (ii) What are Objects ?
- (iii) How is a member function of a class defined ?
- (iv) Why in C++, a variable can be declared anywhere in the scope ? What is the significance of this feature ?

- (y) Differentiate between an array and a string. 4×5=20

Part-B

Unit-I

2. Explain the terms :

(i) Reusability

(ii) Polymorphism

5+5

3. (a) Explain different types of operators present in C++.

(b) With the help of an example, show how a setu manipulator works.

5+5

Part-C

Unit-II

4. (a) Write a program in C++ to print maximum of the given three numbers using conditional operator.

(b) What are storage classes ? Explain. 5+5

5. What are enumerated data types ? Explain with the help of an example program. 5+5

Part-D

Unit-III

6. Is it possible to declare and use a multidimensional array in C++ ? Explain with the help of an example program. 5+5

7. What are objects and classes ? How objects are created inside a class ? Explain how a class accomplishes data hiding. 4+3+3

Part-E

Unit-IV

8. Write a program to show how a Unary operator is overloaded. 10

9. What do you mean by multilevel inheritance ? Explain with the help of an example. 5+5