

Total No. of Questions : 11 Total No. of Printed Pages : 6

PT-140

B.C.A. IIIrd Semester (ATKT)

Examination, 2016

Object Oriented Programming Using C++

Paper - BCA-301

Time : 3 Hours]

[Maximum Marks : 85

Note :- All questions are compulsory.

SECTION - 'A'

Objective Type Questions 1½×10=15

1. Choose the correct answer :

(i) Which of the following is not a member of class :

- (a) Static function
- (b) Friend function
- (c) Const function
- (d) Virtual function

(ii) How many objects of an abstract class can be created ?

- (a) 1
- (b) 5
- (c) 13
- (d) 0

(iii) How many types of Polymorphis is supported by C++

- (a) 1
- (b) 2
- (c) 3
- (d) 4

(iv) Which of the following is not a type of constructor :

- (a) Copy constructor
- (b) Friend constructor
- (c) Default constructor
- (d) Parameterized constructor

(v) Which approach is adopted by C++ ?

- (a) Top down
- (b) Bottom up
- (c) Right to left
- (d) Left to right

P.T.O.

(vi) Which function cannot be overloaded ?

- (a) Member function
- (b) Static function
- (c) Virtual function
- (d) Both a & b

(vii) Which access specifier is used in a class definition by default :

- (a) Protected
- (b) Public
- (c) Private
- (d) Friend

(viii) Which type of data member can be shared by all objects of its class :

- (a) Public
- (b) Inheritance
- (c) Static
- (d) Friend

(ix) Which constructor function is designed to copy objects of the same class type :

P.T.O.

(4)

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- (a) Create constructor
- (b) Object constructor
- (c) Dynamic constructor
- (d) Copy constructor

(x) Which concept means wrapping up of data and function together ?

- (a) Abstraction
- (b) Encapsulation
- (c) Inheritance
- (d) Polymorphism

SECTION - 'B'

Short Answer Type Questions

5×5=25

2. What do mean by tokens ?

OR

Why do we need the preprocessor directive #include <iostream> ?

3. What is a friend function ? Give merits and demerits of

OR

What is a class. How does it accomplish data hiding ?

4. What are the rules for overloading operators.

OR

What is a destructor ? Explain with the help of a program.

5. What is an abstract class.

OR

When do we make a class virtual ?

6. What do you mean by virtual function ?

OR

What role does the iomanip file play ?

SECTION - 'C'

Long Answer Type Questions **9×5=45**

7. Discuss basic concepts of object oriented programming.

OR

Discuss various data types of C++.

8. What do you mean by overloading of a function ? When do we use this concept ?

P.T.O.

OR

Describe control structures present in C++.

9. Write the definition of constructors. Explain parametric constructors and copy constructor.

OR

Write a complete program to overload unary operator.

10. What is the use of Inheritance. Discuss any two types of Inheritance.

OR

What is Virtual Base class. Write a program to implement the concept of virtual base class.

11. How is polymorphism achieved at :-

- (i) Compile time
- (ii) Run time

OR

What are the advantages of using exception handling mechanism in a program.

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