

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
BCA/ IMCA Summer 2018 – 19 Examination

Semester: 3**Subject Code: 05101203****Subject Name: Object Oriented Concepts and Programming****Date: 01/05/2019****Time: 10:30 to 1:00pm****Total Marks: 60****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Answer the followings.**(05)****A. Write short notes.**

1. What is Member function?
2. List out different types of constructor.
- 3 How many objects can be created from an abstract class?
4. `int x = 22,y=15;`
`x = (x>y) ? (x+y) : (x-y);`
 What will be the value of x after executing these statements?
5. Describe Multilevel inheritance.

(10)**B. Multiple choice type questions/ Give the sentence true or false. (Each of 01 marks)**

1. In object oriented Programming the program is divided into _____
 a) class b) object c) function d) none of these
2. In OOP which concept provides the idea of reusability?
 a) inheritance b) encapsulation c) data hiding d) polymorphism
3. Which of the following statements is incorrect?
 a) Friend keyword can be used in the class to allow access to another class.
 b) Friend keyword can be used for a function in the public section of a class
 c) Friend keyword can be used for a function in the private section of a class.
 d) Friend keyword can be used on main().
4. Classes are _____ datatype.
 a) derived b) user-defined c) built-in d) both a & c
5. The >> operator is known as _____.
 a) put to b) get from c) extraction d) both b & c
6. The process of making a function to exhibit different behaviors in different instances is called
 a) function overloading b) operator overloading c) inheritance d) none of these
7. Which of the following is not a feature of OOPs?
 a) Polymorphism b) inheritance c) dynamic binding d) none of these
8. To increase the value of c by one which of the following statement is wrong?
 a) `c++;` b) `c = c + 1;` c) `c + 1 => c;` d) `c += 1`
9. Objects communicate with one another by using
 a) message passing b) operator overloading c) inheritance d) both a & b
10. If `(x = 100)`
`cout << "x is 100";`
 a) 100 should be enclosed in quotations
 b) There is no semicolon at the end of first line
 c) Equals to operator mistake
 d) Variable x should not be inside quotation

- Q.2 Answer the followings. (3 Mark Questions.) (15)**
1. Elaborate difference between POP and OOP
 2. Explain Call by ref. And Call by Values with reference.
 3. What are Constructor and Destructor? Explain with example.
 4. When will you make a function inline? Why?
 5. What is scope resolution operator:: in c++? Explain with example.
- Q.3 Answer the following. (Any three) (15)**
1. Give Difference between Private method & Public method with example.
 2. What is function overloading? Write a program of Function overloading using Sum, difference, product and quotient of two integer numbers.
 3. Describe put() and get() Functions in C++.
 4. What is a friend function? What are the merits of using friend functions?
- Q.4 Answer the following.**
- A.** Explain looping and controlling structure with example. **(05)**
- B.** What is Pointer? Describe Pointer to object with example. **(10)**
- OR
- B.** What is Inheritance? Explain multiple inheritances with example. **(10)**