

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

Semester: 3**Subject Code: 05101203/05301203****Subject Name: Object Oriented Concepts and Programming****Date: 27/10/2018****Time: 10:30 am to 1:00 pm****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 following.**A. Write short notes.****(05)**

1. Define Data Abstraction.
2. What is a friend class?
3. What is Scope Resolution Operator?
4. Briefly explain multi-level inheritance.
5. What is object?

B. Multiple choice type questions.(Each of 01 mark)**(10)**

1. OOPs follow ----- approach during program design.
[A] top down [B] bottom -up [C] both a & b [D] none of these
2. ----- is the smallest or the atomic elements of a language.
[A] Identifiers [B] Literals [C] Keywords [D] Tokens
3. Which of the following is not a valid relational operator?
[A] == [B] => [C] >= [D] >=
4. The same function name having different tasks
[A] Function overloading
[B] Constructor overloading
[C] Polymorphism
[D] Operator overloading
5. Which of the following is not a type of constructor?
[A] Copy constructor
[B] Friend constructor
[C] Default constructor
[D] Parameterized construct
6. The function that act as an interface to base & derived class
[A] function overloading
[B] virtual function
[C] constructor
[D] friend Function
7. Constructor is executed when _____.
[A] an object is created
[B] an object is used
[C] a class is declared
[D] an object goes out of scope.

8. The functions declared inside the class is known as -----

- [A] Data members
- [B] Library functions
- [C] Member functions
- [D] User defined functions

9. Which function is in the istream class

- [A] get() [B] put() [C] write [D] cout

10. The function contain in the ios class to set flags.

- [A] width() [B] precision() [C] fill() [D] setf()

Q.2 Answer the following. (Attempt Any Five.) (15)

1. What are the operators available in C++?
2. What are the Stream manipulators?
3. What are the differences between data type struct and data type class in C++?
4. Describe the syntax of the single inheritance in C++.
5. What is polymorphism? Write types of polymorphism.
6. Describe the major parts of a C++ Program.

Q.3 Answer the following. (Attempt Any three) (15)

1. What is virtual function? Give the rules for virtual functions.
2. What is Inheritance? Explain different types of Inheritance.
3. What is a stream? How do the I/O facilities in C++ differ form that in C?
4. Describe the classes for file stream operations. Explain various file mode parameters in C++.

Q.4 Answer the following.

- A. Explain the basic characteristics of object oriented programming (05)
- B. What is Constructor? Describe the types of Constructor each with an Example. (10)

OR

- B. Explain Unary and Binary Operator overloading with rules and example. (10)