



**Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University) Coimbatore- 641043
Bachelor's Degree Examination – April/May 2019
SEMESTER II**

Class : I UG

Major : Computer Science

Time: 3 hours

Max. Marks: 100

18BCAC06 - Object Oriented Programming with C++

Part A

10 x 1 = 10

Choose the correct answer

1. The developer of C++ is
a. James Gosling b. Dennis Ritchie c. Patrick Naughton d. Bjarne Stroustrup
2. The properties of inheriting one class object to the another class object is called ____ -
a. polymorphism b. Inheritance c. Dynamic binding d. Encapsulation
3. _____ are functions or classes declared with the friend keyword
a. friends b. classes c. objects d. constructors
4. _____ is an user-defined data type.
a. int b. class c. float d. double
5. The mechanism of giving such special meaning to an operator is called _____
a. derived class b. base class c. abstract class d. operator overloading
6. _____ is a member function which destructs an object.
a. Constructor b. destructor c. copy constructor d. friend
7. The class that inherits properties from another class is called _____
a. derived class b. base class c. abstract class d. operator overloading
8. Which one of the following cannot be static and also cannot be a friend function of another class?
a. Virtual functions b. operator overloading c. object d. Inheritance
9. A problem that arises during the execution of a program is _____
a. trigger b. state c. exception d. event
10. Ability to take more than form is _____
a. template b. exception c. Polymorphism d. Inheritance

PART B

5 * 6 = 30

Answer the following

11. a. Expound briefly on operators with example.

Or

11. b. Briefly discuss about arrays in detail

12. a. illuminate Static Data Members in detail

Or

12. b. Elucidate declaration of classes and objects with example.

13.a. Elucidate copy constructor with example.

Or

13. b. Write a note on Destructors with example.

14.a. Elucidate types of Inheritance in detail

Or

14.b. Describe Access specifiers in C++

15.a. Distinguish between static and Dynamic polymorphism.

Or

15.b. How is an exception handled in C++? Explain with suitable example.

Part C

5X12=60

Answer the following

Answer should not exceed 800 words or four pages.

16. a. Elucidate key concepts of object oriented programming in detail

Or

16.b. Explain control statements with example.

17.a. Elucidate friend class and friend function in detail.

Or

17.b. Write a C++program to print the students mark sheet using class.

18.a. Elucidate constructors in detail

Or

18.b. Explicate operator overloading in detail

19.a. Elucidate virtual classes in detail.

Or

19.b. Write a C++ program to illustrate the concept of multiple inheritance.

20.a. Explicate User-defined exceptions with example.

Or

20.b. Describe virtual function in detail.
