

**Avinashilingam Institute for Home Science and Higher Education for Women  
(Deemed to be University) Coimbatore – 641043**

**Master's Degree Examination  
Semester – III**

**Class : II PG  
Major : Bioinformatics**

**Time : 3 hours  
Max. marks : 60**

**17MBIC15 Object Oriented Languages**

**Part – A**

**10 x ½ = 5**

**Choose the correct answer**

- Which of the following is not a feature of C++?  
a) Operator overloading    b) Namespaces    c) Inheritance    d) Reflection
- The fields in a class of a C++ Program are by default  
a) protected.    b) public    c) private    d) None of these
- A constructor is called whenever  
a) An object is declared    b) An object is used    c) a class is declared    d) a class is used
- It is guaranteed that a \_\_\_\_\_ has at least 8 bits and a \_\_\_\_\_ has at least 16 bits.  
a) int, float    b) char, short    c) bool, char    d) char, int
- If same message is passed to objects of several different classes and all of those can respond in a different way, what is this feature called?  
a) Inheritance    b) Overloading    c) Polymorphism    d) Overriding
- How many basic types of inheritance are provided as OOP feature?  
a) 2    b) 3    c) 1    d) 4
- Which among the following cannot be used for polymorphism?  
a) Static member functions    b) Member functions overloading  
c) Predefined operator overloading    d) Constructor overloading
- Which among the following is correct for hierarchical inheritance?  
a) Two base classes can be used to be derived into one single class  
b) Two or more classes can be derived into one class  
c) One base class can be derived into other two derived classes or more  
d) One base class can be derived into only 2 classes
- What is the order of variables in enum in java?  
a) Ascending order    b) Descending order  
c) Random order    d) depends on the order () method
- Which of these keywords must be used to monitor for exceptions?  
a) throw    b) finally    c) try    d) catch

**Part-B**

**5 x 4 =20**

**Answer ALL questions**

**Each answer should not exceed 200 words or one page**

- 11 a. Explain constant and its types in C++.  
Or  
b. Define user defined data types with example in C++.
- 12 a. Briefly explain difference between OOP and Procedure-oriented programming.  
Or  
b. Explain Polymorphism in detail with example.
- 13 a. . Explain how OOP implements data hiding and code reusability.  
Or  
b. i) Define Friend function and Inline function.  
ii) Write a C++ program to explain Friend function and Inline function.
- 14 a. Write a java program to implement File Handling Operations.  
Or  
b. Explain String handling in java with examples.
- 15 a. i) What is difference between Checked Exception and Unchecked Exception?  
ii) What is a finally block in java ?  
Or  
b. Explain multithreading in java in detail.

**Part-C**

**5x7=35**

**Answer ALL questions**

**Each answer should not exceed 600 words or three pages**

- 16 a. Explain different forms of constructors with example.  
Or  
b. Explain control structures in C++ in detail.
- 17 a. Write in detail the access specifiers in C++ with example.  
Or  
b. Explain different types of inheritance in detail.
- 18 a. Explain operator overloading in C++ with one example.  
Or  
b. Explain Garbage collection in Java with example.
- 19 a. Explain exception handling in detail with example.  
Or  
b. Define Interface in java.  
Describe in detail the various features of java packages.
- 20 a. Define Applet. Explain the use of java applets with example.  
Or  
b. Explain input output stream in java with example.