

(Following Paper ID and Roll No. to be filled in your Answer Books)

PAPER ID :**www.uptunotes.com****M.C.A. (DUAL DEGREE)****Theory Examination (Semester-IV) 2015-16****OBJECT ORIENTED PROGRAMMING USING C++****Time : 3 Hours****Max. Marks : 100****SECTION-A****Q1: Attempt ALL of the following: (10×2=20)**

- What do you mean by Polymorphism?
- What is Object Oriented Approach?
- Discuss the difference between C and C++.
- Define Applet.
- What is operator overloading?
- How event handling is done in JAVA?
- What do you mean by hybrid inheritance?
- Define concept of Object & Class.
- Define aggregation.
- Enlist the operators that can not be overloaded.

SECTION-B**Q2: Attempt any FIVE of the following: (5×10=50)**

- What are events and states in dynamic modeling? Explain with example.
- Explain call by value? Write a program to explain how parameters are passed in a java Program in call by value method.
- What do you mean by states? Explain the difference between states and events with proper example.
- Discuss dynamic memory allocation.
- Explain access control. What is abstract class?
- Compare overloading and overriding with examples.
- Explain stream classes and give stream classes for console operation. What is the difference between opening a file with constructor function and opening a file with open() function.

h) What is runtime polymorphism? Write a program to illustrate the concept of parameterized constructor.

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SECTION-C

Note: Attempt any TWO of the following: (2×15=30)

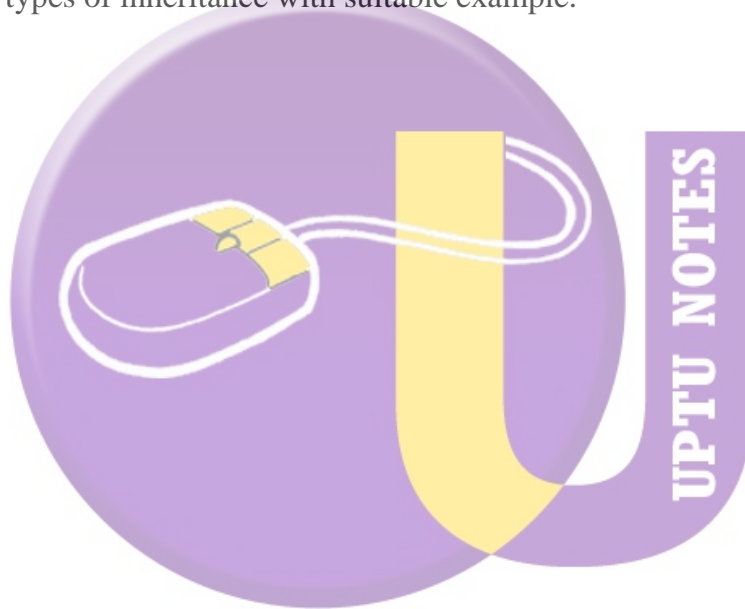
Q3 (a) What is exception handling? How are exceptions handled in C++.

(b) What is constructor? Explain different types of constructor.

Q4 (a) Explain the use of interface class with an example.

(b) What is multithreading? Explain Thread life cycle.

Q5 Explain different types of inheritance with suitable example.



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