11 Lecture - CS304

Important Mcqs

1. **In which scenario would you use a constant member function?**
   a. When you want to modify the object
   b. When you want to ensure that the object cannot be modified
   c. When you want to improve performance
   d. Both b and c
   Answer: d

   Which of the following is an example of a scenario where constant member functions would be useful?
   a. Implementing a class that represents a car
   b. Implementing a class that represents a mathematical vector
   c. Implementing a class that represents a text editor
   d. Implementing a class that represents a video game character
   Answer: b

   Can a constant member function modify the state of the object it is called on?
   a. Yes
   b. No
   Answer: b

   What is the benefit of using constant member functions?
   a. They allow you to modify the object
   b. They improve performance
   c. They ensure that the object cannot be modified
   d. They allow you to access private member variables
   Answer: c

   Which keyword is used to declare a member function as constant?
   a. const
   b. static
   c. virtual
   d. volatile
   Answer: a

   Which of the following is an example of a constant member function for a class representing a mathematical vector?
   a. void setX(double x)
   b. double getX() const
   c. double length()
   d. void normalize()
   Answer: b

   What is the purpose of a constant member function for a class representing a

mathematical vector?
a. To modify the vector
b. To return the length of the vector
c. To normalize the vector
d. To ensure that the vector cannot be modified
Answer: d

Which of the following is an example of a scenario where constant member functions would not be useful?
a. Implementing a class that represents a bank account
b. Implementing a class that represents a calendar event
c. Implementing a class that represents a temperature sensor
d. Implementing a class that represents a musical instrument
Answer: d

What is the return type of a constant member function?
a. void
b. int
c. double
d. Depends on the implementation
Answer: d

Can you call a non-constant member function from a constant member function?
a. Yes
b. No
Answer: b