





- v) Function Overloading is an example of
- a) Runtime polymorphism
  - b) Compile time polymorphism
  - c) Pointer to a constant
  - d) None of these.
- vi) Template is used for
- a) Memory space
  - b) Programming language
  - c) Variable value
  - d) Variable address.
- vii) Constructor can return value
- a) Not always true
  - b) Always true
  - c) Never true
  - d) None of these.
- viii) When a function call itself is called
- a) Inline function
  - b) Virtual function
  - c) Recursive function
  - d) None of these.
- ix) To make any value constant in C++ we use
- a) Statical
  - b) Const
  - c) Virtual
  - d) all of these.
- x) Which one of the following is an access specifier ?
- a) Private
  - b) Virtual
  - c) Static
  - d) None of thses.
- xi) Namespace is a
- a) Declarative Region
  - b) Virtual Class
  - c) Property of C++
  - d) None of these.



**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following.  $3 \times 5 = 15$

2. When do we make a virtual function “public” ? What are the implications of making a function pure virtual function ?
3. Bring out the difference between classes and structures in C++.
4. What is pointer arithmetic ? How is it performed ? Support your answer with an example.
5. Neatly explain constructor and destructor with suitable examples.
6. What is manipulator ? What do you mean by type cast operator ? What is copy constructor ?

**GROUP – C**

**( Long Answer Type Questions )**

Answer any *three* of the following.  $3 \times 15 = 45$

7. a) Differentiate between macros and functions. 5
- b) When should one use references, and when should I use pointers ? 5
- c) Explain Function overloading with simple examples. 3
- d) What do you mean by new and delete operators ? 2



8. a) What is the order that local objects are destructed ? 5  
b) What is the significance of access specifiers in a class ? 3  
c) Explain the role of file iostream.h in C++. 3  
d) Explain the difference between prefix and postfix incremental operator. 4
9. a) What is File handling in C++ ?  
b) What is Stream Class ? Describe the stream class levels in C++ with the diagram.  
c) What is the difference between private and public member variables ?  
d) Define Friend class with an example. 3 + 2 + 3 + 2 + 5
10. a) What are the differences of C and C++ ? What is Class in C++ ?  
b) What do you mean by data hiding and data abstraction and how is it implemented in C++ ? 4 + 2 + 2 + 7
11. Write a short note on any *three* of the following : 3 × 5  
a) Template Class  
b) Abstract Class  
c) Operator Overloading  
d) Sequential and Random Access file.  
e) Overloading of [] operator.
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