

Dr. MPS Memorial College of Business Studies

Question Bank

BCA II

OOPs Using C++

- 1) What do you mean by access specifiers in C++?
- 2) Define Scope Resolution Operator.
- 3) What are Inline Functions? What are the advantages of Inline Function?
- 4) Define Union in C++?
- 5) What do you mean by Polymorphism?
- 6) What are pure virtual functions?
- 7) Define functions. Discuss the concepts of "Pass by value" and "Pass by reference" with help of program in C++.
- 8) What do you mean by constructor and destructor? Write a program to demonstrate copy constructor and destructor.
- 9) What are various control and conditional statements available in C++? Explain the use of break and continue statements.
- 10) Answer briefly :
 - a) List various features of object oriented programming language.
 - b) Define structure and union.
 - c) What is object and class?
 - d) What is static member function?
 - e) Write a C++ program to swap two numbers without using third variable.
 - f) Differentiate union and class.
 - g) What is Encapsulation?
 - h) Name any 4 C++ compilers
 - i) What is Base and Derived Class?
 - j) What is the use of static function?
 - k) Write down the syntax to create a class and object
 - l) What are Local and Global variables?
 - m) Discuss the use of Scope resolution operator.
 - n) Differentiate early binding and late binding
 - o) What is Dynamic Memory Allocation?
- 11) What is data hiding and encapsulation? How it is implemented using C++? Explain with example.
- 12) Define Constructor. What are its different types? Explain with suitable example.

- 13) What is function and operator overloading? Write and explain a C++ program to demonstrate the concept of unary operator overloading.
- 14) What are friend and inline functions? Explain with example.
- 15) Why we use Virtual Functions in C++ programs? Explain
- 16) What do you understand by Pass By Reference? Discuss with C++ program
- a) Differentiate between C and C++.
 - b) Write a note on Data Hiding
- 17) How Function Overloading is possible in C++? Discuss with C++ program?
- 18) Define a constructor. How will you overload a constructor? Explain with example.
- 19) Write a short note on Destructor with an example.
- 20) Define the following:
- a) Class
 - b) Inheritance
 - c) Polymorphism
 - d) Data Abstraction
 - e) Data hiding
 - f) Friend Classes
 - g) Pointers
 - h) Constructors
 - i) Header files
- 21) What are the various forms of IF statement? Discuss each of them with the help of flowchart and example
- 22) What is Function? Name its different categories. Write a program to pass arguments to a function using
- a) Passing by Address
 - b) Passing by Reference
- 23) Differentiate between Private and Public member functions with the help of an example.
- 24) How does function overloading implement polymorphism? Explain it with example.
- 25) What is Loop? Explain the different type of loops available in C++
- 26) What is Class? Explain the different access specifiers that are used in a class with suitable example.
- 27) What is the difference between call by value and call by reference? Explain with suitable example.
- 28) Explain the role of class, object, data member, member function and access specifiers in C++ with an example.
- 29) Write a program in C++ to find the product of digits of a given number.
- 30) What is an Object? How it is different from class?
- 31) What is OOPs? How it is different from structured programming? Explain the role of Encapsulation, Abstraction, Dynamic Binding in Object-Oriented Programming.

Note: These questions are for your help only. For Deep understanding of the topics, it is suggested to read books thoroughly.