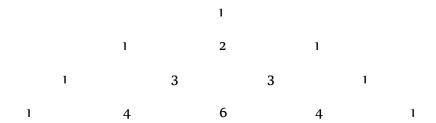
- State advantages of Object Programming over Procedure oriented programming.
- 2) What do you mean by Late Binding and Early Binding? Distinguish between them.
- 3) Explain various applications of OOPs.
- 4) What are feature of the C++ language?
- Write a short note on Data Abstraction.
- 6) What do you mean by Data Encapsulation and Data binding?
- 7) What is polymorphism? How is polymorphism achieved at compile time and runtime?
- 8) What is OOP? State advantages of OOP.
- 9) "C++ is a pure Object Oriented Language". Justify T/F.
- 10) What is extraction and insertion operator?
- 11) Give Syntax to create a reference variable
- 12) Why can't you initialize within a class?
- 13) Write a C++ statement to allocate memory dynamically for an array of 20 pointers to object if some class, say A
- 14) How does a declaration differ from class definition?
- 15) Define the terms 1. Class 2.Object 3. Identifiers?
- 16) Write a program to find product of digits of an integer number n.
- 17) Write a c++ program to find maximum of 10 numbers.
- 18) Write a C++ program to generate 20 terms of Fibonacci sequence of number
- 19) Write a C++ program to check whether number n is Prime or not.
- 20) Write a c++ program to read the values of a and b and display the value of x where x=a/(b-c)
- 21) Write a reference variable? What is mean by passing argument by reference> Explain with example.
- 22) What is friend function? What are merits and demerits if using friend function?
- 23) What do you meant by dynamic initialization of objects? Why do we need to do this>
- 24) What is stream? Describe briefly the features of 1/O system supported by C++ with reference to C++ stream classes
- 25) What is scope resolution operator? What are the applications of it?

- 26) What is a friend class? What are advantage abd disadvantage in using friend classes in C++? Give example
- 27) What is nested class? How is nested class defined and declared in C++?
- 28) Create a class FLOAT that contains one float data member. Overload all four arithmetic operators so that they operate on object of FLOAT.
- 29) Write a short note on Inline function. Write Advantage and disadvantage of inline function.
- 30) Why can't static member function access a non-static member of a class?
- 31) What is static data member and static member function? Explain with example.
- 32) Write a function that prints specified number of blank lines on the screen. This number should be default 1.
- 33) Write a C++ program to read the set of n integers and store it in 1D array. Also read a set of floating point numbers of same size and store it in another array and print the contents of these two array separately using the function overloading technique.
- 34) Write a C++ program to read a set of lines and find number of character, words and lines in a given text using member class.
- 35) What is overloading in OOP? What is function overloading and operator overloading on C++? Give suitable example.
- 36) Write an OOP in C++ using function overloading for addition of two given matrices, two floating point number matrices.
- 37) In which circumstances, programmer can not telly on compiler supplies copy constructor, instead needs to write his/her own copy constructor?
- 38) How many times will the constructor of a class student be invokes for the following statement Student S, *P; ? [SA]
- 39) Write a note on destructor with suitable example [SA]
- 40) Write a note on constructor with suitable example. Write the rules for writing constructor function? What are the uses of declaring constructor member function in a program?
- 41) In a copy constructor, is it necessary for existing instance to be passed into the function by reference.

- 42) What is Copy Constructor? Describe merits and demerits of it.
- 43) Explain different types of constructor with example
- 44) Define a class to represent complex numbers. Overload operator + as friend to add 2 objects of that class. Also write main() to test this function. Be sure to write other necessary member function including constructor and destructor.
- 45) Write a C++ program for a class Integer which contains an integer as a data member, overload the! Operator to find factorial of an integer. Write necessary constructor and member functions.
- 46) Explain pointers with suitable example.
- 47) Explain "this" pointer in C++. What are the applications of "this pointer?
- 48) Write a C++ program using operator overloading to check whether given number is prime or not.
- 49) Explain operator overloading of an assignment operator.
- 50) Create a class STRING to overload +-(concatenation) and =-(equality) to manipulate strings.
- 51) What is operator overloading? Why is it necessary to overload an operator?
- 52) What is Abstract class?
- 53) What do you mean by virtual destructor? Explain with example.
- 54) What do you mean by protected access specifier? Explain protected derivation in detail.
- 55) What do you mean by virtual base class and abstract base class? Explain with example.
- 56) What is virtual function? Why do we need virtual Function? When do we make a function pure virtual Function?
- 57) Write a short note on Constructor in derived class.
- 58) What do you mean by Inheritance in OOPS? Explain different types of inheritance in C++.
- 59) Write a short note on Virtual Base Class
- 60) Write a short note on Pure Virtual Function.
- 61) Explain Containership? How does it differ from Inheritance?
- 62) Explain the following give syntax rules.
 - Public Inheritance 2.Private 3. Protected Inheritance

- 63) Explain different forms of Inheritance.
- 64) Explain how to open the files in C++? Describe the various files opening modes.
- 65) Write a C++ program to remove all comments from a C file taken as input from user.
- 66) Write a C++ program to copy one file into another after deleting white spaces.
- 67) Write a C++ program to copy one "C" file into another after deleting comments of one file.
- 68) Explain 1.tellg() 2.tellp() 3.seekp() 4.seekg()
- 69) What is template? Explain with example. What are the advantages of Template?
- 70) What is an Exception? Explain try and catch block.
- 71) Write a program to accept two numbers and perform basic arithmetic operation on it.

 Handle the exception like Zero_Divide_Error
- 72) Explain various classes available for file stream operation
- 73) Write a program in C++ to count no. of character, words in "sam.txt" file
- 74) State difference between seekg() and seekp() function
- 75) Write a C++ program to copy the content two files into third file.
- 76) What is file? Explain the various filestream classes needed for a file manipulation.
- 77) Write a C++ program which takes a file as input and from user and changes every case of every alphabet within the file.
- 78) Write a C++ program to read a file and count the no. of vowels and consonants.
- 79) Write a program in C++ to generate following output



- 80) State advantages of Object Programming over Procedure oriented programming.
- 81) What is Class Template? Explain Syntax of class Template with suitable example.
- 82) What is Function Template

- 83) Give the syntax of create an object of template classes.
- 84) Using a generic function. Write a C++ program to swap two integers or two float numbers.
- 85) Write a program which uses multiple catches.
- 86) What will happen if an exception is thrown for which there is no corresponding catch statement.
- 87) Explain significance of:

Throw, catch, try, catch(...)