

type-1:

(Group-A)

1\*10=10 marks:

Q1.who invented by c and c++ ?

Q2. what is "printf","scanf"and also define cout & cin?

Q3. define data type, keyword and variable in short words?

Q4. what is constructor and destructor in c++?

Q5. what is point and Array? Or what is class and object?

Q6. what is full form of ASCII and also define Ascii value of "a"?

Q7. what is the extension of c++ and also define syntax error?

Q8. Write a program in c++ to check large number between three numbers (to take number for user)?

Q9. define encapsulation? or write access specifiers in class?

Q10.what is string and define of strlen() function? or what is inline function?

type-2:

(Group-B)

3\*15=5 marks:

Q.11 what is function and also define call by value and call by reference?

Q12.what is recursion (recursive function) and use of recursion to print factorial? Or WAP in c++ to print Fibonacci numbers series?

Q13.difference between oops and pop (any five points written)?

Q14.check whether number is prime or not prime? Or WAP in c++ to covert the temperature in Celsius to Fahrenheit and vice-versa?

Q.15 what is polymorphism and types of polymorphism (function overloading and function overriding)? or WAP in c++ to input row & Cloumn (for two matrix) and print matrix and sum of it's?

type-3:

(Group-C)

15\*3=45 marks:

Q16.what is inheritance and types of inheritance (with short an example code)?

Q17.what is file handling & it's types and operation?

Q18.Explain loop control statements of 'c' with example?

Q19. differentiate "c" and "c++" language?

Q20. write a program to print a tringle of stares as follows (take number of lines from user)?

(a)

```

      *
    * *
  * * *
* * * *
```

(b)

```

      1
    2 2
  3 3 3
4 4 4 4
```

(c)

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      A
    A B
  A B C
A B C D
```

Q21. Write a program in c++ to enter records of 10 students. recorders contents roll number, name and marks of five subjects that display roll number, name and total of 5 subjects marks and structure definition write? or WAPIC to check the given number formats is in binary or not?

sol: -1

- C was invented by Dennis Ritchie in the early 1970s at Bell Labs.
- C++ was invented by Bjarne Stroustrup in 1979, also at Bell Labs.

sol: -2

- printf is a function in C language used to print output to the screen.
- scanf is a function in C language used to take input from the user.
- cout is a function in C++ language used to print output to the screen.
- cin is a function in C++ language used to take input from the user.

sol: -3

- data type defines what kind of data a variable can hold.
- Keyword a reserved word in a programming language that has a specific meaning in programming language and cannot be used as a variable name.
- Variable as a container that holds data which can be changed during program execution.

sol: -4

- Constructor is a special type of function which is automatically called at the time of object creation. It's used to initialize the object's data (variables).
- Destructor is an also special type of member function that is used to deallocate the memory, allocated by the constructor.

sol: -5

- Array is a collection of similar type of data. It's stored data contiguous memory location. Array index always starts form zero.

- pointer is a variable that can able to hold address of another variable.

Or

- A class is like a blueprint for creating objects. It defines properties (variables) and behaviors (functions) that the objects created from it will have.
- An element of a class is known as object. (in another word an object is an instance of a class).

sol: -6

- The full form of ASCII is American Standard Code for Information Interchange. ASCII value of "a"=97.

sol: -7

- The typical file extension for C++ source code files is .cpp. For header files, it is usually .h or .hpp.
- A syntax error occurs when the code does not follow the rules or grammar of the programming language. This can happen if you forget a semicolon, parentheses and other operators etc. It is also known as compile time error.

sol: -8