Si] What are the characteristics of Cit Programing language e) It is a that tevel tragramming language abandual busheled , paridoto o si ft (8 1) It is on Object Oriented Programming Language The supports procedural as well as Object Criented Way c) It is a block structured longuage. TI supports the static data typing concept. A SSIGNMENT Tyd apper 21 to 12 [28]

Sport partiet por part 21 appendent to 12 port 21 port 21 appendent to 12 port 21 appende CH Programma Logic. The adiete the concept of Chjeck Crientation C++ provides the new data type Class. Class is considered as an User-defined Ratiotype, which is dispose similar as Structure from C. Pregramming Language Class is an user-defined Data type which contains the things 1> Characteristics (Nota Members) (Rochards (Rochars)

- Bi] What are the characteristics of C++ Programming Language
 - 1) It is a native Programming Language
- 2) It is a High Level Programming Language
- 3) It is a compiled Programming Language
- 4) It is an Object Oriented Programming Language
- 5) It supports procedural as well as Object Oriented Way
- 6) It is a block structured language.
- 7) It supports the static data typing concept.
- O2] What is mean by a Class?
- Object Orientation is the most important building block of CH Programming Logic. The achieve the concept of Object Orientation C++ provides the new data type Class.
- Class is eonsidered as an User-defined Datatype, which is almost similar as Structure from C Programming Language.
- Class is an User-defined Data type which contains the things:
- i> Characteristics (Dota Members)
- 2> Behaviours (Functions)

89] Write notes on Constructor & Destructor The concept of Constructor & Destructor is almost same in CHT Re Java But there is no concept of Destructor in Java. constructor & Destructor are considered as special functions. constructor is a function which gets automatically called where we greate a object of a class. The compiler will call the constructor before allocating the memory for the object. The Destructor is a function which gets automatically called before creating the memory for the object. . Constructor: 1> Default

2> Parameterized

3> Copy

is splain the tool drain of ett program constructor is used to initialise the characteristics as well as it is use to allocate the resources.

Destruction is not used to allocate the memory for the object It is used to deallocate the resources which were allocated inside the constructor. Destructor gets automatically called before deallocating the memory of the object.

Q4] What are the data types in ctt? List then with their Size.

Data Types in C++

regulat Constructors & Destructor is also to appropriate in the Prinitive Denived User-Defined - char (1byte) -> Array -> 3 bricture >int (4 byte) -> Pointer (8 byte) -> Union -float (4 byte) - Function -> Enumeration →double (8 by te) -> Reference Class the memory for the object. -> void Hopfor <1 - reporters 2> Paraneterized - boolean (1bit)

Q5] Explain the tool chain of C++ program

The boolchain of CH Program is same as that of c Program amming Language.

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in the constructor. Destructor gets automobically collect So] What is mean by Abstraction to proposed proposed

Hiding something from the outside world is known as Abstraction To achieve this we use access specifier like private

```
Bit what is mean by Access specifier & Explain each with an
   example.
There are 3 types of Access specifier in C++:
AJ public
B) private
of motected
The concept of Access specifier is used to specify which part of
a class can be accessed by the ooksiders & which part cannot
be accessed by the outsiders.
If he want to allow everyone to access without any restrictions
then it should be written under public access specifiers.
If we want to hide something from outside world then we should
use private access specifier. The data which is written under
private access specifier is only accessible inside the class in which
it is written
If the class mants to provide the access of its child class (derived
class) then that data should be written inside the protected
access specifier.
88] Write a program to find out maximum of two numbers using
 procedural (C) & Object oriented approach (C++).
 #include (stdio.h>
  int main ()
   int ni, n2, max;
   print ( " Enter two numbers: ");
   Scant (60 olod olod, &n1, 2n2);
```

```
i+ (n1 > n2) {
      max=ni;
           16 parties of 1) costs specifier in C++ c
   else &
     max = n2;
  print + (66 Maximum number is: % od In 99, max);
 return of bidus crapictor at the because of the
                     essed by the outsiders
supplied on the company to access without any restrictions
    it should be untien under public access specifiers
 #include (iostream) shirton and partitiones shirt on the
 using namespace std;
 int main()
   int ni, nz, max;
cout << 66 Enter two numbers: 09.
   cin >> n, >n2; and istant id hoods who took took took
   max = (hp> n2) ? n1: n2;
  rehmn a:
```

gal Explain the Object Oriented Programming Paradigm The Object Oriented Programming Poradigmare: of Encapsulation 2> Abstraction 37 Inheritance 47 Polymorphism Encapsulation: binding characteristics & behaviours together is called encapsulation. To erre achieve this me create a class. 27 Abstraction: Hiding something from the outside world is known as Abstraction. To achieve this we use access specifier like private. 3> Inheritance: It is ansidered as reusability & to achieve this we need to inherit the derived class from the parent dass. 47 Polymorphism single name & multiple behaviours is called polymorphism 910] Write difference between C& CH Points CH Poradigm Procedural Programming Object - oriented programming Focus Functions Objects & class Standard scanf() & printf() cin & cout I/0 Supports exception handling Emon No exception Handling Handling Dynamic new & delete malloc(), calloc() & reavoc() wewant

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