Deepa College

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IMPORTANT And Repeated Questions(April 2022- set questions)

Computer Science

One mark questions

1. Name the header files for which the following built in functions belong to:(2022)
   a. getch()
   b. isdigit ()
   Ans:- getch() – conio.h
   Isdigit() – math .h

2. _____ Symbol is used to declare a reference variable.(2022)
   Ans:- &

3. For an integer number with assigned value as a= 5 write a statement using a conditional operator to check and display whether number is "positive" or " negative".(2022)
   Ans:- (a==5)?"positive":"negative";

4. Write the HTML code to display 2D rule in a webpage having width of 2 pixels and without any shade.(2022)
   Ans:- <HTML>
   <hr size= 2 no shade>
   </HTML>

5. How many times the string "hello" will be printed on the screen.(2022)
   while(0)
   {
   cout<<"Hello";
   }
   Ans:- Error

Two mark questions.

6. Define the following
   a. void * ptr;
      Ans:-ptr be a pointer to void type.
   b. Dereferencing Operator.

Ans:-- Dereferencing Operator is a symbol used in programming languages to access the value stored at the memory address pointed to by a pointer. It is typically represented by the asterisk (*) symbol.

7. Identify the error and Rewrite the correct code and underline the correction.

```
#include<iostream.h>
void main
{
int a,b;
cin<<b;<<a;
if(a>b) max=a
}
```

Ans:-
```
#include<iostream.h>
void main()
{
int a,b,max;
cin>>b>>a;
if(a>b)
max= a;
}
```

8. Write a function to search a specific element in an integer array of 20 elements using binary search technique.

Ans:-
```
int binarySearch(int arr[], int low, int high, int x)
{
   while (low <= high) {
      Int mid = low + (high – low) / 2;

      // Check if x is present at mid
      If (arr[mid] == x)
         Return mid;

      // If x greater, ignore left half
      If (arr[mid] < x)
         Low = mid + 1;

      // If x is smaller, ignore right half
      Else
         High = mid – 1;
   }

   // If we reach here, then element was not present
   Return -1;
```

}

9. What is Normalisation? Why there is need for Normalisation?
   Ans:-- Normalisation is the process of analysing the data to be represented and breaking it down into separate tables in accordance with the principles of relational structure.

   Need for Normalisation
      a. To structure the data.
      b. To permit the simple retrieval of data in response to queries or reports.
10. Explain the difference between "/" operator and "%" operator in C++?

Ans:- These operators are arithmetic operators. / is known as division operator which performs division and % is known as modulus operator, it is used to find the remainder. For eg : We have two operands a = 9, b = 3, and result of a/b = 3 whereas result of a%b = 0.

11. Define different keys.
      a. Primary keys
      b. Foreign keys.
         Primary key- The group of one or more columns used to uniquely identify each row of a relation is called it's key.
         Foreign keys – A group of one or more columns in a table which is used to set relationship of this table with some other table.
12. Define the following terms
      a. Function Overloading
      b. Hybrid Inheritance.
         Ans:-- **Function Overloading** – Function Overloading is the process in which there are two or more member functions with the same name in a program but with different numbers and types of parameters. The function can have other implementations also.
         Hybrid Inheritance
         Hybrid inheritance is the process of combining more than one type of Inheritance while deriving subclasses in a program.

Four Marks Questions
13. Write a C++ program to implement Bubble sort.
    Ans:-- include<iostream>
    Using namespace std;
    Int main()
    {
       Int n, i, arr[50], j, temp;
       Cout<<"Enter the Size (max. 50): ";
       Cin>>n;
       Cout<<"Enter "<<n<<" Numbers: ";

```
For(i=0; i<n; i++)
    Cin>>arr[i];
Cout<<"\nSorting the Array using Bubble Sort Technique..\n";
For(i=0; i<(n-1); i++)
{
    For(j=0; j<(n-i-1); j++)
    {
        If(arr[j]>arr[j+1])
        {
            Temp = arr[j];
            Arr[j] = arr[j+1];
            Arr[j+1] = temp;
        }
    }
}
Cout<<"\nArray Sorted Successfully!\n";
Cout<<"\nThe New Array is: \n";
For(i=0; i<n; i++)
    Cout<<arr[i]<<" ";
Cout<<endl;
Return 0;
```

14. Write an HTML code to create the following
    Streams are available :
    1. Commerce
        - Accounts
        - Business Studies
    2. Science
        - Chemistry
        - Physics

```html
Ans:-- <HTML>
<Body>
<Ol>
<Li> Commerce</Li>
<Ul>
<Li> Accounts</Li>
<Li> Business Studies</Li>
</Ul>
<Li> Science</Li>
<ul>
<li>Chemistry</Li>
<Li>Physics</li>
</Ul>
</Ol>
```

```
</Body>
</HTML>
```

15. What happens if the image displayed on the webpage is not available? Explain the tag and attribute used to do so with the help of an example

Ans:--

If the image displayed on the webpage is not available, In such cases the browser places a cross symbol indicating that the image is not available or could not to be displayed. The user does not get any clue about which image has to be displayed there. Using ALT attribute we can specify the alternate text to be displayed if the image is not available.

Eg:- <img src="images\tejas.jpg" height= 150 width=150 alt=Tejas>