

**STD XI – Model Question Paper 1****Chapters 9 to 12 – Volume II****Computer Science****Time : 1.15 Hrs****Marks : 35****I Choose the Best Answer****5 X 1 = 5**

1. Which of the following statement is not true?
  - a) Exponent form of real constants consists of two parts
  - b) Identifiers are user defined names
  - c) C++ is a non case sensitive programming language
  - d) Keywords are reserved words which convey special meaning
2. Modifiers are also called as \_\_\_\_\_
  - a) Access specifiers
  - b) data types
  - c) qualifiers
  - d) none of these
3. Which operator reveals the hidden scope of a variable?
  - a) Conditional
  - b) global
  - c) reference
  - d) scope
4. What kind of values does an array element hold until it is initialized?
  - a) Null
  - b) garbage
  - c) 0
  - d) 1
5. The definitions of the functions are stored in -----
  - a) Header files
  - b) templates
  - c) stacks
  - d) compilers

**II Answer any Four of the Six Questions . Question no 7 is compulsory****4 x 2 = 8**

6. Which is an alternative to if-else statement?
7. What is the formula for calculating the memory space for an array

**(OR)**

What is meant by reusability?

8. Give the syntax of if-else-if ladder?
9. What is the purpose of a structure?
10. Explain the getline( ) function
11. What is a Null statement and how is it different from a compound statement?

**III Answer any Four of the Six Questions. Question no 15 is compulsory****4 x 3 = 12**

12. In C++ which are the operators that can be used at different places with different meanings? Explain
13. What is the use of Void command?
14. State any three rules for constructing a switch statement
15. How is memory representation of a 2D array done?

**(OR)**

How can you access a structure element ? Give example

16. Write a note on the parts of a loop structure
17. What are punctuators and explain any three punctuators with their functions ?

**IV Answer all the questions****2 x 5 = 10**

18. Explain call by value method with an example

**(OR)**

Debug the errors in the following program and state the reason

```
# include <stdio.h>

Int main (s )
{
    Int no=5;
    Cout>>"\n the no is '>;
    Cout << "\n the factorial is ' " << fact(no)
}
Int factorial ( int y)
{
    for( int i = 1; i <= no ; i ++);
        f = f * i;
return f;
};
```

19. Explain any one entry check loop structure with its working and an example  
(OR)

Find the output of the following code – the input given is **51, 32, 46, 9, 0**

```
#include <iostream>
using namespace std;
int main()
{
    int num[10], even=0, odd=0;
    for (int i=0; i<5; i++)
    {
        cout<< "\n Enter Number " << i+1 <<"=";
        cin>>num[i];
        if (num[i] % 2 == 0)
            ++even;
        else
            ++odd;
    }
    cout << "\n There are " << even <<" Even Numbers";
    cout << "\n There are " << odd <<" Odd Numbers";
}
```

**STD XI – Model Question Paper 2****Chapters 9 to 12 – Volume II****Computer Science****Time : 1.15 Hrs****Marks : 35****I Choose the Best Answer****5 X 1 = 5**

- Which of the following is called as compile time operators?  
a) Size of                      b) pointer                      c) virtual                      d) this
- Which of the following function has a return value and has no argument?  
a) M = add(int,int)    b) M = add( )                      c) N = display( float)    d) display(int )
- How many levels of heading tags are available?  
a) 4                                  b) 6                                  c) 8                                  d) many
- cin >> n[3++] , to which element does this statement accept the value?  
a) 3                                  b) 4                                  c) 5                                  d) last
- The data elements in the structure are known as  
a) objects                      b) members                      c) data                                  d) objects

**II Answer any four questions . Q.No 8 is compulsory****4 X 2 = 8**

- What are keywords? Can they be used as identifiers?
- What is the output of the following code?  
for (int i = 3; i <= 10; i+=2 )  
    cout << i ;
- What is the importance of void data type?  
(or)

**State the need for using functions**

- What is traversal in an array?
- What does scope refer to ? List the different types of scopes available in C++
- List and explain any two string functions

**III Answer any four questions . Q.No 15 is compulsory****4 x 3 = 12**

- Assume a = 10 and b = 20, what will be the result of the following operators?  
a) a & b                      b) a ^ b
- What is a conditional operator ? give the syntax
- Write a C++ program to find whether a given number is even or odd
- Write the syntax and purpose of switch statement  
(OR)

**What is the difference between while loop and for loop structure**

- What is an Array? Give the syntax for the different types of arrays
- What are data types ? Give their classification

**IV Answer all the questions****2 x 5 = 10**

- Explain Scope of Variables in C++ with suitable example code  
(or)

**Write a note on different types errors in C++**

**19. Explain the different types operators (any 5 operators) in C++ with suitable examples (or)**

**Find the output of the following programme for all the inputs given**

```
# include <iostream>
using namespace std;
int main( )
{
int year;
cin>> year;
    if( year % 100 == 0)
        if( year % 400 == 0)
            cout<< "leap year";
        else
            cout<< " not a leap year";
}
```

**If the input given is**

**a) 2000**

**b) 2004**

**c) 2010**

**d) 2013**

**e) 1998**