## KENDRIYA VIDYALAYA ANDAL

## Subject - Computer Science class - XI

## **HOLIDAY HOMEWORK**

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Q1)
 a) What is significance of My Computer?
b) Explain different types of operating systems .
c) What is an Operating System? Explain its any two functions
d) How is a compiler different from interpreter?
e) Convert
  (i) (10.10)_{10} = (?)_2
 (ii) (101011.1110)_2 = (?)_{10}
Q2)
a) What do you mean by run time error?
                                                                                                         1
b) what is the deference between if and if - else statement
                                                                                                         2
c) Mention and explain briefly any three characteristics of a good program
                                                                                                         2
d) How can you give a single line and multiline comments in C++ explain with
   suitable examples
                                                                                                          2
e) what do you mean by header files? What is the difference between #include <iostream.h> and
                                                                                                    2
#include"iostream.h"
Q3)
a) Classify the following variable names of c++ into valid and invalid category
                                                                                        2
   (i) 1no (ii) num 1 (iii) num (iv) num1num (v) num+1 (vi) num.1
b) Give output of following code.
                                                                                         3
  #include<iostream.h>
int m=5; void check();
void main()
{ int m=20;
        int m=10*::m;
        cout<<"m="<<m<<"::m="<<::m<<endl;
        } check();
        cout<<"m="<<m<<"::m="<<::m<<endl;
        check(); cout<<"::m="<<::m<<"m="<<m<<endl;
         void check()
         { ++m;
c) What will be result of following statements if a=5, b=5 initially
                                                                                        2
   (i) ++a <=5 (ii)
d)Name the header file(s) that shall be needed for successful compilation of the
following C++ code.
                void main()
                  char name[40];
                  strcpy(name,"India");
                  puts(name); }
e) Explain conditional operator (?) with example in c++ .
                                                                                        2
f) What is difference between "/" and "%" operators in c++? explain with a example
                                                                                         2
Q4)
a) What do you mean by function prototype in C++
                                                                                         2
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b) Explain Break and Continue statement in C++ with example.
                                                                                            2
c) Find syntax error(s) if any in following program ( Assume all header files are present)
 main<>
{ int c;
 switch(c);
case 1.5: { cout<<" India is great\n";
          } break;
"case" 2: { cout<<" hello\n";
           } break;
} // end of main
} // end of switch
d) How will you declare and define
                                                                                             1
    i)Array named mark with 10 integer values
    ii)array named avg with 8 float values
                                                                                             2
e) Convert following while loop to for loop
int x=0;
while(x \le 100) { cout<<" the value of x is \n"<<x;
  cout<<"done \n";
 x+=2;
f) Define token?
                                                                                             1
g) What is the difference between call by value and call by reference explain with
                                                                                                     2
   suitable example
h)Find the output of the following program;
                                                                                                     3
                #include<iostream.h>
                 #include<ctype.h>
                 void main()
                 { char Text[] = "Comp@uter!";
                 for(int I=0; Text[I]!="\0";I++)
                { if(!isalpha(Text[I]))
                 Text[I]="*
                 else if(isupper(Text[I]))
                 Text[I]=Text[I]+1;
                 else
                 Text[I] = Text[I+1]; }
                cout<<Text; }
i) What are differences between for and do-while loop? explain with example
j) How can you define Global Variable and Local Variable? Also, give a suitable C++
 code to illustrate both.
Q5: a) Write a program to print the left and right diagonal element of an NXN matrix
     b) b. Write a program to find the factorial of a number recursive function.
     c) Write a program to find the total number of characters, lines and words in a
         paragraph of text.
     d) Write a program to sort an array on N numbers in ascending order. Avoid
        duplication of elements.
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e) Write a program to find the roots of a quadratic equation.