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Holiday Home work – Class XII – May -June

1.Rewrite the following program after removing the syntactical errors (if any).Underline each correction.

```
#include <iostream.h>
struct Pixels
{ intColor,Style;}
voidShowPoint(Pixels P)
{ cout<<P.Color,P.Style<<endl;}
void main()
{
        Pixels Point1=(5,3);
        ShowPoint(Point1);
        Pixels Point2=Point1;
        Color.Point1+=2;
        ShowPoint(Point2);
}
```

2. Find the output of the following program;

```
#include<iostream.h>
#include<ctype.h>
void main( )
{
        char TEXT1[ ] = "December@TEST!";
        for(int I=0; TEXT1 [I]!='\0';I++)
        {
                if(!isalpha(TEXT1[I]))
                        TEXT1[I]='*';
                else if(isupper(TEXT1 [I]))
                        TEXT1[I]=TEXT1[I]+1;
                else TEXT1[I] = TEXT1[I+1];
        }
        cout<<TEXT1;
}
```

3. In the following program, find the correct possible output(s) from the options:

```
#include<stdlib.h>
#include<iostream.h>
void main( )
{   randomize( );
    char Area[ ][10]={"Physics","Computer","Maths","Hindi"};
    int A;
    for(int I=0; I<3;I++)
    {
            A=random(2) + 1;
            cout<<Area[A]<<":";
    }   }
```

4. Define a class **CLOTH** in C++ with following description:

Private Members:

- A data member Code of type string

- A data member Type of type string
- A data member Size of type integer
- A data member Material of type string
- A data member Price of type float
- A function Cal_price() which calculates and assigns the value of GPrice as follows:

For the value of Material as "COTTON":

Type	Price(Rs.)
TROUSER	1500
SHIRT	1200

- For Material other than "COTTON" the above mentioned Price gets reduced by 25%.

Public Members:

•A constructor to assign initial values of Code, Type and Material with the word "NOT ASSIGNED" and Size and Price with 0.

• A function Enter () to input the values of the data members Code, Type, Size and Material and invoke the Cal_Price () function.

• A function Show () which displays the content of all the data members for a CLOTH.

5) Find the output of the following program segment

```
#include<iostream.h>
void FUNC(int *a,int n)
{ inti,j,temp,sm,pos;
        for(i=0;i<n/2;i++)
                for(j=0;j<(n/2)-1;j++)
                if(*(a+j)>*(a+j+1))
                        { temp=*(a+j);
                          *(a+j)=*(a+j+1);
                          *(a+j+1)=temp; }
        for(i=n-1;i>=n/2;i--)
        { sm=*(a+i);
        pos=i;
                for(j=i-1;j>=n/2;j--)
                if(*(a+j)<sm)
                { pos=j;
                sm=*(a+j); }
        temp=*(a+i);
        *(a+i)=*(a+pos);
        *(a+pos)=temp;  } }
void main( )
{
int w[ ]={-4,6,1,-8,19,5},i;
FUNC(w,6);
        for(i=0;i<6;i++)
        cout<<w[i]<<' ';}
```

6. Find the output of the following program

```
#include<iostream.h>
#include<ctype.h>
```

```
typedef char Str80[80];
void main()
{
        char *Notes;
        Str80 Str="vR2GooD";
        int L=6;
        Notes=Str;
        while(L>=3)
        {
                Str[L]=(isupper(Str[L])?tolower(Str[L]):toupper(Str[L]));
                cout<<Notes<<endl;
                L--;
                Notes++;}
}
```

7. What will be the output of the following program

```
#include<iostream.h>
#include<ctype.h>
#include<conio.h>
#include<string.h>
voidchangestring(char text[ ], int&counter)
{
        char *ptr = text;
        int length=strlen(text);
        for(;counter<length-2;counter+=2,ptr++)
        {
                *(ptr+counter) = toupper(*(ptr+counter));
        }
}
void main()
{
        clrscr();
        int position = 0;
        char message[ ]= "Mouse Fun";
        changestring(message,position);
        cout<<message<< "@" <<position;
}
```

8. Give the ***output*** of the following program segment

```
#include<iostream.h>
int m=50;
voidmain( )
{
        int m=25;
        { int m= 20*:: m;
        cout<<"m="<<m <<endl;
        cout<<"::m="<< ::m <<endl;
        }
```

```
        ::m=++m+ m;
        cout<<"m="<<m <<endl;
        cout<<"::m="<< ::m <<endl;
    }
```

9. Give the ***output*** of the following program :

```
#include<iostream.h>
double area(int l, double b)
{       return (l*b) ;}
float area(float b, float h)
{       return(0.5*b*h) ; }
void main( )
{ cout<<area(5,5)<<endl;
cout<<area(4,3.2)<<endl;
cout<<area(6,3)<<endl;      }
```

10. Write the output of the following program :

```
#include <iostream.h>
#include <string.h>
#include <ctype.h>
void swap(char &c1,char &c2)
{       char temp;
        temp=c1;
        c1=c2;
        c2=temp;
}
void update(char *str)
{
        int k,j,l1,l2;
        l1 = (strlen(str)+1)/2;
        l2=strlen(str);
        for(k=0,j=l1-1;k<j;k++,j--)
        {
            if(islower(str[k]))
                swap(str[k],str[j]);
        }
        for(k=l1,j=l2-1;k<j;k++,j--)
        {
            if(isupper(str[k]))
                swap(str[k],str[j]);
        }
}
void main()
{
        char data[100]={"bEsTOfLUck"};
        cout<<"Original Data : "<<data<<endl;
        update(data);
        cout<<"Updated Data "<<data;
}
```