

INDIAN SCHOOL MUSCAT
COMPUTER SCIENCE
CLASS 11 (2017-18)

REVISION ASSIGNMENT 5 TOPIC : OUTPUT QUESTIONS

DATE : 29.01.2018

1. Find the output of the following program. Assume all required header files are already being included in the program.

```
void Position(int &C1, int C2 = 3)
{ C1 += 2;
  C2 += 1; }
void main()
{ int P1 = 20, P2 = 4;
  Position(P1);
  cout<< P1 << ", " << P2 <<endl;
  Position(P2, P1);
  cout<< P1 << ", " << P2 <<endl; }
```

2. Find the output of the following program. Assume all required header files are already being included in the program.

```
void Withdef(int HisNum = 30)
{ for (int I = 20; I <= HisNum; I += 5)
  cout<< I << " ";
  cout<<endl; }
void Control(int&MyNum)
{ MyNum += 10;
  Withdef(MyNum); }
void main()
{
  int YourNum = 20;
  Control(YourNum);
  Withdef();
  cout<< "Number = " <<YourNum<<endl; }
```

3. Find the output of the following program. Assume all required header files are already being included in the program.

```
void Encode(char Info[], int N);
void main()
{ char Memo[] = "Justnow";
  Encode(Memo, 2);
  cout<< Memo <<endl; }
void Encode(char Info[], int N)
{ for (int I = 0; Info[I] != '\0'; I++)
  if (I % 2 == 0)
  Info[I] = Info[I] - N;
  else if (islower(Info[I]))
```

```

Info[I] = toupper(Info[I]);
else
Info[I] = Info[I] + N;  }

```

4. Find the output of the following program. Assume all required header files are already being included in the program.

```

void ChangeIt(char Text[], char C)
{
for (int K = 0; Text[K] != '\0'; K++)
{ if (Text[K] >= 'F' && Text[K] <= 'L')
Text[K] = tolower(Text[K]);
else if (Text[K] == 'E' || Text[K] == 'e')
Text[K] = C;
else if (K % 2 == 0)
Text[K] = toupper(Text[K]);
else
Text[K] = Text[K - 1]; }
}
void main()
{ char oldText[] = "pOwERALone";
ChangeIt(oldText, '%');
cout<< "New TEXT:" <<oldText<<endl; }

```

5. Find the output of the following program. Assume all required header files are already being included in the program.

```

void Convert(char Str[], int Len)
{
for (int Count = 0; Count < Len; Count++)
{
if (isupper(Str[Count]))
Str[Count] = tolower(Str[Count]);
else if (islower(Str[Count]))
Str[Count] = toupper(Str[Count]);
else if (isdigit(Str[Count]))
Str[Count] = Str[Count] + 1;
Else Str[Count] = '*'; }
}
void main()
{
char Text[] = "CBSE Exam 2015";
int Size = strlen(Text);
Convert(Text, Size);
cout<< Text <<endl;
for (int C = 0, R = Size - 1; C < Size / 2; C++, R--)
{ char Temp = Text[C];
Text[C] = Text[R];
Text[R] = Temp; }
}

```

```
cout<< Text <<endl; }
```

6. Study the following program and select the possible output from it. Assume all required header files are already being included in the program.

```
void main()
{
randomize();
int Points,LIMIT=5;
Points = 100 + random(LIMIT);
for (int P = Points; P >= 100; P--)
cout<< P << "#";
cout<<endl; }
```

(i) 103#102#106#100# (ii) 100#101#102#103
(iii) 100#101#102#103#104# (iv) 104#103#102#101#100#

7. In the following C++ program what is the expected value of MyMarks from Options (i) to (iv) given below. Justify answer. Assume all required header files are already being included in the program.

```
void main()
{ randomize();
int Marks[] = { 99, 92, 94, 96, 93, 95 }, MyMarks;
MyMarks = Marks[1 + random(2)];
cout<<MyMarks<<endl; }
```

(i) 99 (ii) 94 (iii) 96 (iv) None of the above

8. Go through the C++ code shown below, and find out the possible output or outputs from the suggested output options (i) to(iv). Also, write the least value and highest value, which can be assigned to the variable guess. Assume all required header files are already being included in the program.

```
void main()
{ randomize();
int Guess, High = 4;
Guess = random(High) + 50;
for (int C = Guess; C <= 55; C++)
cout<< C << "#"; }
```

(i) 50 # 51 # 52 # 54 # 55 # (ii) 52 # 53 # 54 # 55 #
(iii) 53 # 54 # (iv) 51 # 52 # 53 # 54 # 55

9. Observe the following program SCORE.CPP carefully, if the value of Num entered by the user is 5, choose the correct possible output(s) from the options from (i) to (iv), and justify your option. Assume all required header files are already being included in the program.

```
void main()
{ randomize();
```

```

intNum, Rndnum;
cin>>Num;
Rndnum = random(Num) + 5;
for (int N = 1; N <= Rndnum; N++)
cout<< N << " "; }

```

Output Options:

(i) 1 2 3 4 (ii) 1 2 (iii) 1 2 3 4 5 6 7 8 9 (iv) 1 2 3

10. void main()

```

{ int A[]={30, 40, 50, 20, 10, 5};
int split=3,k;
for(k=0; k<6; k++)
{ if(k<split)
A[k] +=k;
else A[k] *=k; }
for (int k=0; k<6; k++)
{ (k%2==0)? cout<<A[k]<<"%" : cout<<A[k]<<endl; } }

```

11. Answer the questions based on the following structure definition:

```

struct Product
{int code;
char itemname[20];
float price; };
Product P[ ]={ {111,"Tooth Paste",30.50},{222,"Hair Brush",78.60},{333,"Bath
Soap",25.50},{444,"Shampoo",43.45}};

```

Give the values of the following:

a) P[1].price b) P[1].itemname[3] c) P[2].price+15 d) P[3].itemname

12. Predict the output of the following program :

```

#include<iostream.h>
void Change(int &x, int y, int z=12)
{int a=x+z;
x=x-y;
y=x*10;
cout<<x+z<<"."<<y<<"\n"; }
void main( )
{int g=7,k=20,p= -5;
Change(g,k);
cout<<g<<"."<<k<<endl;
Change(k,p,g);
cout<<g<<"."<<k+p; }

```