Question 01[20 marks]

Write the output of the given C++ code segments. Please note there are no syntax errors in the given set of codes. And all the code snippet contains #include<iostream> and using namespace std;

Code	Output
(A) (2 Mark) What would be the output produced by executing the following C++ code?	

float Mystery(int y, int x){
  return (y + x + 7.0 / 2);
}
 	
int main(){
  float i = 9.5;
  int j = 4;
  cout << Mystery(i, j) << endl;
  return 0;
}
	16.5

(B) (2 Mark) What would be the output produced by executing the following C++ code?	

int main()
{
  int i = 65;
  for (char ch = i; ch <= 70; ++ch)
  cout << ch << " ";
  return 0;
}
	A B C D E F

(C) (2 Mark) What would be the output produced by executing the following C++ code?

```
int fun(int x){
        return x % 3 + 1;
}
int main()
{
        int b = 5;
        int y = 2 + fun(3 * b + 1);
        int z = fun(fun(y));
        cout << y << "-" << z;
return 0;
}
```

4-3

(D) (4 Mark) What would be the output produced by executing the following C++ code?

```
void PRINT(int i,int limit)
{
   do
   {
      if (i++ < limit)
      {
         cout<<"MID"<<i;
         continue;
      }
   }while(i==limit);
}
int main()
{
   int i = 1;
   PRINT(i, 3);
   return 0;
}
```

MID2

(E) (4 Mark) What would be the output produced by executing the following C++ code?

```
int main(){
int x, y = 4;
        for (x = 2; x < y; x++)
                y = y - 1 % x;
        cout << y << "-";
        x = 4;
        do{
                cout << --x << "-";
                x *= 2;
        } while (x <= 10);
return 0;}
```

3-3-5-9-

(F) (3 Mark) What would be the output produced by executing the following C++ code?

```
int main(){
        int i, j, sum = 10;
        for (i = 0; i<5; i++)
                if (i % 2)
                    for (j = 0; j <= 3; sum += j, j++);
                else
                    for (j = 3; j>0; sum += j, j--);
        cout << sum;
}
```

40

(G)(2 Mark) What would be the output produced by executing the following C++ code?

```
int main(){
    int y = 0;
    switch (y){
            case 0:  y = y + 11;
            case 1:  y = y / 2;
            case 2:  y = y * 5;
            case 3:  y = y + 1;
            default: y = y%3;
```

2

```
    }
     cout << y << endl;
return 0;
}
```