Student Name (بالعربي):   **Student ID:**

Q1. Which functions will correctly return the value of the parameter x added by 1?

I.	II.	III.

```int Add1 (int x){```
`    return ++x;`
`}`
	```int Add1 (int x){```
	`    return x++;`
	`}`
		```int Add1 (int x){```
		`    if (x == 0)`
		`        return 1;`
		`    else`
		`        return x += 1;`
		`}`

a.   II only   b.   I and II only

c.   <mark>I and III only</mark>   d.   II and III only

Q2. Which functions will correctly return true if its parameter x is an even integer?

I.	II.	III.

```bool IsEven (int x){```
 	
`    return (x % 2 == 0);`
 	
`}`
	```bool IsEven (int x){```
	
	`    return (x / 2 == 1);`
	
	`}`
		```bool IsEven (int x){```
		`    if (x % 2 == 1)`
		`        return false;`
		`    else`
		`        return true;`
		`}`

a.   II only   b.   I and II only

c.   II and III only   d.   <mark>I and III only</mark>

Q3. What is the output after the execution of the following C code?

```
#include <stdio.h>
#include <math.h>
int main(){
   int a = 3, b = 2, c = 3;
   if ((a > b) && (a <= c)){
      a++;
      printf("%.1f", pow(a, c));}
   else{
      --a;
      printf("%.1f", pow(a, c));}
   return 0;
}
```
a.   1.0   b.   81.0   c.   <mark>64.0</mark>   d.   syntax error

Q4. What is the output after the execution of the following C code?

```c
#include <stdio.h>
int main(){
   int n = 60;
   if (n >= 75) {
      if (n >= 95) {
         printf("%d", n++);
      }
      else
         printf("%d", --n);
   }
   else
      if (n++ > 60)
         printf("%d", n++);
      else
         printf("%d", ++n);
}
```

a.   62   b.   61   c.   60   d.   59

Q5. What is the output of the following C?

```c
#include <stdio.h>
int i;
void S();
void R();

void main(){
   i = 2;
   S();
   R();
}

void S(){
   printf("%d ", i);
}

void R(){
   int i = 3;
   S();
}
```

a.   3 2   b.   2 3   c.   3 3   d.   2 2