

Ceng230 Review

1- Correct following program.

```
#include <stdio.h>
int main( )
{
    int a;
    scanf("%d", a);
    printf("%f", a * 2)
    return 0;
}
```

2- Correct following program.

```
include <stdio.h>
int main( );
{
    int a;
    int b;
    scanf("%d %f", &a, &b);
    printf("%d", a + b);
    return;
}
```

3- Fill in the gaps to complete the program that calculates the area and the perimeter of a square.

```
#include <stdio.h>
int r;
int main( )
{
    scanf("%d", ...);
    printf("%d %d", ... , 4 * r);
    ...
}
```

4- What is the output of the below program?

```
#include <stdio.h>
int main()
{
    int a = 3;
    printf("a");
    return 0;
}
```

5- What is the output of the below program?

```
#include <stdio.h>
int main()
{
    int n = 12;
    printf("%d", n / 10 + n % 10);
    return 0;
}
```

6 – Circle the mistakes and correct them.

```
#include <stdo.h>
int 1number;
1number = 5;
float _number2 = 3.;
void main( )
{
    float number3 = 5.2;
    printf( "%c", _number2 + number3 );
    return 0;
}
```

7- What is the output of the below program?

```
#include <stdio.h>
int main( )
{
    printf( "/" "Hello\t/-\\tWorld!" "\\n***" );
    return 0;
}
```

8- What is the output of the below program?

```
#include <stdio.h>
int main( )
{
    int a = 5;
    if(a > 5)
        printf("aa");
    else if(a == 5)
        printf("a");
    else
        printf("aaaa");
    return 0;
}
```

9- What is the output of the below program?

```
#include <stdio.h>

int main()
{
int a = 5;
if(a > 5)
    printf("aa");
else if(a == 5)
    printf("a");
else;
    printf("bbb");
return 0;
}
```

A) aa B) a C) bbb D) abbb E) aabbb

10 - The syntax of ? operator in C is;

(Condition) ? Truevalue : Falsevalue

What will be the value of x and y after execution of the following program segment?

```
int x, y = 3;
x = ++y < 4 ? y++ : y--;
```

11- What will be the output after execution of the following program segment?

```
int x;
float y;
x = 5 / 2;
y = 10.0 / x * 2.5;
printf("%d %.2f", x, y);
```

12- What will be the output after execution of the following program segment?

```
char c = 'a';
printf("%c%c%d%c%c", c, 99, 65, 65, 'A');
```

A) c996565A B) a996565A C) ac65AA D) acAAA

13- What will be the output after execution of the following program ?

```
#include <stdio.h>

int main()
{
int x = 5;
double y, z;
x += x + x++;
y = (double) x / 2;
z = x++ / y--;
printf( "%d %.1lf %.1lf", ++x, y++, --z );
return 0;
}
```

14- What will be the value of n after execution of the following program segment?

```
int n = 2;
n = ( double ) n;
```

A) 2 B) 2.0 C) 2.000 D) 0

15- What will be the output after execution of the following program?

```
int main()
{
    int n = 2;
    int x = 3;
    switch( n ){
        case 1: x += x;
        case 2: x *= x;
        default: x *= 2;
    }
    printf("%d", x);
    return 0;
}
```

16- What will be the value of n after execution of the following program segment?

```
int n = 1;
switch( 0 ){
    case 2: n += 1; break;
    case 0: n += 2;
    case 1: n += 3; break;
    default: n += 4; }
```