

## Round 1 (Novice) Time:15m

0) What does HTML stand for?

- A) Hyper Text Markup Language**
- B) High Technical Modern Language
- C) Hyper Transfer Markup Language
- D) Hyperlink Text Management Language

1) What is output of following program

```
#include <stdio.h>
int main() {
    int x = 5;
    printf("%d", x++ + ++x);
    return 0;
}
```

- A) 12** B) 11 C) undefined D) Compiler Error

2) Which of the following is the correct way to declare a pointer in C?

- A) int p\*;
- B) int \*p;**
- C) int& p;
- D) pointer int p;

3) Which of the following is a valid C variable name?

- A) 2myNum
- B) float
- C) \$myNum**
- D) None of the above

4) Which of the following statements is true for a do-while loop in C?

- A) It executes at least once, regardless of condition.**
- B) It does not require a semicolon at the end.
- C) It executes only if the condition is true before execution.
- D) It runs indefinitely.

5) Which of the following is used to dynamically allocate memory in C?

- A) malloc()**
- B) alloc()
- C) dynamic()
- D) new()

6) what is output of following program

```
int a = 10;
int *p = &a;
printf("%d", ++*p);
A) 10
```

**B) 11**

- C) Address of a
- D) Compilation error

7) C Programming Language is often called as :

- a) High Level Language**
- b) Middle Level Language
- c) Low Level Language
- d) None of these

8) Which of the following is true about C programming language ?

- a) C is a structural language.
- b) C is a procedural language.
- c) C does not support function within function.
- d) All of these**

9) what will happen if you run the following program

```
int main() {  
    for (;;) {  
        printf("Why is this still running?!\n");  
    }  
    return 0;  
}
```

- A) Your laptop turns into a heater
- B) The CPU screams in agony
- C) You get fired from your job
- D) All of the above

11) What will be the output of the following C code?

```
#include <stdio.h>  
void fun(int *p) {  
    *p = *p * *p;  
}  
int main() {  
    int a = 4;  
    fun(&a);  
    printf("%d", a);  
    return 0;  
}
```

- a) 4
- b) 8
- c) 16**
- d) Compilation error

12) Which of the following statements about sizeof in C is true?

- a) sizeof is a function that evaluates at runtime.
- b) sizeof always returns the size of the variable in bytes, except for arrays.
- c) sizeof(int) \* 2 is equal to sizeof(long).**
- d) none of the above

13) what is output of following line

```
printf("%d", 5["hello"]);
```

**A) 0**

B) Compilation error

C) Undefined behavior

D) Runtime error

14)

```
int *p = NULL;
```

i) \*p = 10;

ii) printf("%d", \*p);

iii) **printf("%d", p);**

iv) **p = (int\*)malloc(sizeof(int));**

Which of the following will not cause segmentation fault?

**A) option iii) and iv)**

B) only option iv)

C) option i) and iv)

D) none

15) what is output of following c program

```
#define SQUARE(x) x * x
```

```
#include <stdio.h>
```

```
int main() {
```

```
    printf("%d", SQUARE(4 + 1));
```

```
    return 0;
```

```
}
```

A) 25

**B) 9**

C) 75

D) Compilation Error