

## CSC 111—Fall 2013

### Quiz 1 Solutions

1. Which of the following is a syntactically correct comment in the programming language C?
  - a. `/* Comment /*`
  - b. `** Comment **`
  - c. `{ Comments }`
  - d. **`/* Comment */`**
  
2. What token is used to terminate a statement in the programming language C?
  - a. **semicolon**
  - b. colon
  - c. comma
  - d. period
  
3. What is the output of the following syntactically correct C program?

```
#include <stdio.h>
#include <stdlib.h>
int main(void) {
    int k;
    for (k=1; k<=5; k++) {
        printf("%d ", k);
    }/*for*/
    return EXIT_SUCCESS;
}/*main*/
```

  - a. 1 2 3 4
  - b. 0 1 2 3 4 5
  - c. **1 2 3 4 5**
  - d. 1 2 3 4 5 6
  
4. Which type of code is produced by the Build process of the application development cycle?
  - a. Source Code
  - b. **Machine Code**
  - c. Object Code
  - d. None of the above

5. Which of the following illustrates the structure of a basic C function?

- a. `void name ("declarations") {  
    "parameters"  
    "statements"  
}`
- b. `void name("parameters") [  
    "declarations"  
    "statements"  
] /*name*/`
- c. `void name("parameters") {  
    "declarations"  
    "statements"  
} /*name*/`**
- d. `void name("statements")  
{  
    "declarations"  
    "parameters"  
} /*name*/`

6. Identify the syntax error in the following C program?

```
#include <stdio.h>
#include <stdlib.h>
int main(void) {
    printf(csc 111);
    return EXIT_SUCCESS;
} /*main*/
```

- a. `\n` is missing
- b. comments are missing
- c. a return statement is unnecessary

**d. double quotes around csc 111 are missing**

7. What is the name of the function that should be present in every standard C program?

- a. `stdio.h`
- b. `main`**
- c. `printf`
- d. `begin`

8. What is the output of the following syntactically correct C program?

```
#include <stdio.h>
#include <stdlib.h>
int main(void){
    printf("Welcome \n UVIC\n");
    printf("\nCSC 111 \n ECS 242\n");
    return EXIT_SUCCESS;
} /*main*/
```

- a. Welcome  
UVIC CSC 111 ECS 242
- b. Welcome  
UVIC  
CSC 111  
ECS 242
- c. **Welcome**  
**UVIC**  
  
**CSC 111**  
**ECS 242**
- d. Welcome UVIC  
CSC 111ECS 242

9. What is the name of the function present in following syntactically correct C Program?

```
#include <stdio.h>
#include<stdlib.h>
int main(void) {
    printf("Welcome to CSC111\n");
    printf("Knowledge is Power\n");
    return EXIT_SUCCESS;
} /*main*/
```

- a. stdio.h
- b. **main**
- c. printf
- d. return

10. Identify a logical error, if any, in the following syntactically correct C program that is meant to compute the area of a triangle (i.e., one half of base times height).

```
#include <stdio.h>
#include <stdlib.h>
int main(void) {
    float base = 10.8;
    float height = 9.8;
    float area = (base*height) % 2;
    printf("Triangle area: %0.3f\n", area);
    return EXIT_SUCCESS;
} /*main*/
```

- a. remove parentheses ()
  - b. replace \* with /
  - c. replace % with /**
  - d. there are no logical errors in this program
11. Which is the correct sequence of steps in an application development cycle?
- a. Build  
Edit  
Compile  
Run
  - b. Edit  
Build  
Compile  
Run
  - c. Edit  
Compile  
Run  
Build
  - d. Edit  
Compile  
Build  
Run**

12. What is Eclipse? Check the most appropriate answer.

- a. A programming environment for the programming language C.
- b. A software development environment for the programming language Java.
- c. An editing, compiling, debugging, building and execution software development environment for different programming languages.**
- d. None of the above

13. What is the output of the following syntactically correct C Program?

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

void printText(void) {
    printf ("Eureka\n");
} /*printText*/

void printNLines(int n) {
    int k;
    for (k=1; k<=n; k++);
} /*printNLines*/

int main(void) {
    printNLines(4);
    return EXIT_SUCCESS;
} /*main*/
```

- a. Compile Error
- b. Prints Eureka 4 times
- c. No output**
- d. Infinite Loop

14. Identify the name below that is not a syntactically correct identifier in the programming language C.

- a. ABC
- b. \_52
- c. for**
- d. Int