

ESET 269 - Homework 1

1. Which of the following is not a valid variable name? (circle all that apply)

- a. CourseName
- ☒ b. Course Name
- ☒ c. 23CourseName
- d. Course

2. If a variable is declared with no initial value, what should be assumed about the variable?

- a. The variable is unusable
- ☒ b. The variable value is unknown & random
- c. The variable value is NULL
- d. This would cause a syntax error

3. What will be printed to the console window after the code below is executed?

```
char letter = 'P';  
letter = 'a';  
printf("%c", letter);
```

- ☒ a. a
- b. P
- c. Nothing due to compile error
- d. Unknown as letter never assigned value

4. What conversion characters should go in the blanks given the following code?

```
float y = 9.88;  
int val = -98;  
printf("_____ is not an even number. _____ is smaller.", val, y);
```

- a. %c, %d
- b. %f, %d
- ☒ c. %d, %f
- d. %d, %s

5. Given the following code, how many characters is the string?

```
char stuff[] = "word";
```

- a. unknown
- ☒ b. 4
- c. 5
- d. infinite

6. Which string copy function will change the value of the string word to test?

```
char word[] = "word";
```

- a. strcpy(word, "test");
 - b. strcpy("test", word);
 - c. strcpy(word, 'test');
 - d. strcpy(%s, word);
7. Given the following code, write the scanf function that would be used.

```
printf("Type number:\n");  
//insert scanf function here  
printf("Your number is %d", number);
```

```
scanf("%d",&number);
```

8. Describe why the following code gives a compile error.

```
int Var = 5;  
printf("The value is %dn\r!", var);
```

Variables are case sensitive. Var is initialized as Var and then used as var. It won't work unless the v in var is changed to V.

9. Given the following code:

```
float x,y;  
x = 4.23;  
y = 3.56677;  
char item[5] = "book";
```

Which of the following printf statements will print the following to the console window?

```
The book is only 4.23 instead of 3.57
```

- a. printf("The %s is only %.2f instead of %.2f", item, x, y);
- b. printf("The %c is only %d instead of %.2f", item, x, y);
- c. printf("The %s is only %f instead of %f", item, y, x);
- d. printf("The %s is only %.2f instead of %.2f", item, y, x);

10. Given the following code, a user types Hello Fresh. What is displayed to the console window?

```
char word[20];  
printf("Enter a string:");  
scanf("%s",word);  
printf("%s",word);
```

- a. Hello Fresh
- b. Hello
- c. Fresh
- d. Nothing is displayed