

1. Find the output of the below code segment?

```
float interest = 0.0;
float bal = 10000.00;
char type = 'F';

if (type == 'A')
    interest = bal * 0.25;

bal = bal + interest + bal * 0.1;
printf("%.2f\n", bal);
```

Select one:

- a. 0.00
- b. 1000.00
- c. 3500.00
- d. 13500.00
- e. 11000.00

The correct answer is: 11000.00

2. Consider the below C structure which represents the groups in an institute. `studentCount` represents the no of students in a given group.

```
struct group
{
    int groupNo;
    int studentCount;
}group1, group2;
```

There are 115 students in group1 and 123 students in group2. Which of the following C statements will correctly assign these student counts?

Select one:

- a. `group. studentCount = 115; group. studentCount = 123;`
- b. `group1. studentCount = 115; group2. studentCount = 123;`
- c. `studentCount = 115; studentCount = 123;`
- d. `group1 = 115; group2 = 123;`
- e. `int studentCount1 = 115; int studentCount2 = 123;`

The correct answer is: `group1. studentCount = 115; group2. studentCount = 123;`

3. Which of the following X value will yield the below expression to 'True'?

$(X < (X + 1)) \ \&\& \ (X == 8)$

Select one:

- a. 10
- b. Any integer
- c. 1
- d. 8
- e. None of the above

The correct answer is: 8

4. If the value of X is 1245, what is the output of the below statement?

```
printf("%d-%d-%d-%d\n", x % 1000 % 100 % 10, x % 1000 % 100 / 10, x % 1000 / 100, x / 1000);
```

Select one:

- a. 1-2-4-5
- b. 5-4-2-1
- c. 1000-100-10-1
- d. 1-10-100-1000
- e. None of the above

The correct answer is: 5-4-2-1

5. Which of the following are correct identifiers?

Select one:

- a. total , 1num , average_mark , _total
- b. total salary , average , num1
- c. totalMark , salary , num_one , average
- d. int , num , salary , total
- e. mark , total , average , \$count

The correct answer is: totalMark , salary , num_one , average

6. Choose the correct statement/statements ?

Select one or more:

- a. A program can be compiled and executed without the header file <stdio.h>
- b. <stdio.h> is a header file with predefined functions like printf, scanf etc
- c. A C compiler translates the source code into object code line by line.
- d. A program can be compiled and executed without a main function.
- e. #include is a Preprocessor Directive

The correct answers are:

<stdio.h> is a header file with predefined functions like printf, scanf etc,

A program can be compiled and executed without the header file <stdio.h>

#include is a Preprocessor Directive

7. Select the correct statement/s from the following.

Select one or more:

- a. comments are executable
- b. comments improve the readability of the program
- c. Comment can have any character
- d. Comments are case sensitive
- e. Always the comment should start with a // or /*

The correct answers are:

comments improve the readability of the program

Always the comment should start with a // or /*,

Comment can have any character

8. What will be the output of following code segment?

```
int sum = 15;

if ( sum <= 20 )
    sum = sum + 5;
else
    sum = sum - 5;

sum = sum + 15;
printf("value = %d \n" , sum);
```

Select one:

- a. value = 30
- b. value = 15
- c. value = 20
- d. value = 10
- e. value = 35

The correct answer is: value = 35

9. What will be the output of following code segment?

```
int choice = 2 ;
switch(choice)
{
    case 1+2 / 3:
        printf("First\n");
        break;

    case 2 / 2 * 3:
        printf("Second\n");
        break;

    default:
        printf("Error\n");
}
```

Select one:

- a. First
- b. Error
- c. No output
- d. Second
- e. FirstSecond

The correct answer is: Error

10. We can store _____ within following variable.

```
char letter;
```

Select one:

- a. Alphabetical characters and numeric values only
- b. Any character
- c. Lowercase alphabetical characters only
- d. Numeric values only
- e. Uppercase and lowercase alphabetical characters only

The correct answer is: Any character