Started on	Sunday, 24 September 2023, 4:21 PM
State	Finished
Completed on	Sunday, 24 September 2023, 5:29 PM
Time taken	1 hour 7 mins
Grade	**13.00** out of 14.00 (**93**%)

Question **1**

Correct

Mark 2.00 out of 2.00

Assuming correct syntax, what is the output of the following code segment?

int i=9, j=13;
    printf("%d, %d, %d\n", i | j & j | i, i | j && j | i, i ^ j);

○ a. 13, 1, 4 ✔

○ b. 11, 4, 12

○ c. 4, 0, 12

○ d. 22, 12, 14

Your answer is correct.

The correct answer is:
13, 1, 4

Assuming that int takes one byte, what is printed?

int k = 032;

int j = ~k;

printf("%d", j);

- a. 205
- b. -27 ✔
- c. -26
- d. -51

Your answer is correct.

The correct answer is:
-27

Find the output.

```
1. #include <stdio.h>
2. int main()
3. {
4. if (4 & 5)
5. printf("I am ok");
6. if ((~8 & 0x000f) == 8)
   printf("I am not ok\n");
7. }
```

- a. All choices are wrong
- b. I am okI am not ok
- c. I am not ok
- d. I am ok ✔

Your answer is correct.

The correct answer is:
I am ok

Which operator is used to check if a particular bit is on or off?

- ○ a. !

- ◉ b. & ✔

- ○ c. ~

- ○ d. |

Your answer is correct.

The correct answer is:
&

Find the output of this program when a = 23 and b = 12.
Note : Do not include any spaces/text in your answer .

```
int main() {
    int a, b, c;

    printf("Enter two numbers\n");
    scanf("%d%d",&a,&b);
    c = b ^ (a ^ b) & a;
    printf("%d",c);

    return 0;
}
```

Answer: 31 ✔

The correct answer is: 31

What is the output?

```c
#include <stdio.h>
int main()
{
    int a = 12, b = 25;
    printf("%d", a & b);
    return 0;
}
```

Answer: 8 ✔

The correct answer is: 8

What is the output?

```c
#include <stdio.h>
int main()
{
    int c = 2 ^ 3;
    printf("%d", c);
}
```

Answer: 1 ✔

The correct answer is: 1

Question **8**

Correct

Mark 1.00 out of 1.00

The correct C statements for performing the task "If number is not equal to 7, display a message "The number is not equal to 7"" on the screen are

if (number ~= 7)

printf("The number is not equal to 7");

Select one:

○ True

◉ False ✔

The correct answer is 'False'.

Question **9**

Incorrect

Mark 0.00 out of 1.00

The output of the following code is 4.

```
1.  #include <stdio.h>
2.  int main()
3.  {
4.      int a = 4;
5.      if (a >> 1)
6.          printf("%d\n", a);
7.  }
```

Select one:

○ True

◉ False ✘

The correct answer is 'True'.

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