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Lab Assessment

Started on Wednesday, 10 July 2019, 2:15 PM

State Finished

Completed on Wednesday, 10 July 2019, 2:17 PM

Time taken 2 mins 9 secs

Grade 42.00 out of 42.00 (100%)

Question 1

Correct

Mark 2.00 out of 2.00

What is a common term for a resistor used in series with a led?

Select one:

- ☒ a. Current limiting resistor ✓
- ☐ b. Don't need a resistor, so I don't know
- ☐ c. Voltage limit resistor

Your answer is correct.

The correct answer is: Current limiting resistor

Question 2

Correct

Mark 2.00 out of 2.00

What will a pull up resistor do when a switch is open?

Select one:

- ☐ a. Pulls the voltage down to a stable logic level
- ☐ b. Do nothing
- ☒ c. Pulls the voltage up to a stable logic level ✓
- ☐ d. I don't know

Your answer is correct.

The correct answer is: Pulls the voltage up to a stable logic level

Question 3

Correct

Mark 2.00 out of 2.00

A current limiting resistor is optional when used in series with a LED.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 4

Correct

Mark 2.00 out of 2.00

A pull up/ down resistor helps provide a more stable input for device and should be used whenever possible in digital logic.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 5

Correct

Mark 2.00 out of 2.00

What is the value of the variable 'r' after line 8?

```
1  int x = 5;  
2  int r = 0;  
3  
4  if(x < 10) {  
5      r = 15;  
6  } else {  
7      r = 10;  
8  }
```

Select one:

- ☐ a. r = 5
- ☐ b. r = 0
- ☒ c. r = 15 ✓
- ☐ d. r = 10

Your answer is correct.

The correct answer is: r = 15

Question 6

Correct

Mark 2.00 out of 2.00

What is the value of the variable 'r' after line 6?

```
1  int x = 15;  
2  int r = 0;  
3  
4  if(x < 10) {  
5      r = 15;  
6  }
```

Select one:

- ☐ a. r = 10
- ☐ b. r = 15
- ☐ c. r = 5
- ☒ d.
r = 0 ✓

Your answer is correct.

The correct answer is:

r = 0

Question 7

Correct

Mark 2.00 out of 2.00

What is the value of the variable 'r' after line 10?

```
1  int x = 15;
2  int r = 0;
3
4  if(x < 5) {
5      r = 15;
6  } else if(x > 5) {
7      r = 10;
8  } else {
9      r = 1;
10 }
```

Select one:

- ☐ a. r=15
- ☒ b. r=10 ✓
- ☐ c. r=5
- ☐ d. r=0

Your answer is correct.

The correct answer is: r=10

Question 8

Correct

Mark 2.00 out of 2.00

What is the value of the variable 'r' after line 10?

```
1  int x = 5;
2  int r = 0;
3
4  if(x < 5) {
5      r = 15;
6  } else if(x > 5) {
7      r = 10;
8  } else {
9      r = 1;
10 }
```

Select one:

- ☐ a. r=10
- ☒ b. r=1 ✓
- ☐ c. r=0
- ☐ d. r=15

Your answer is correct.

The correct answer is: r=1

Question 9

Correct

Mark 2.00 out of 2.00

How many times will the loop run?

```
1  #include <stdio.h>
2
3  int main()
4  {
5      int x;
6
7      for ( x = 0; x < 10; x++ ) {
8          printf( "%d\n", x );
9      }
10 }
```

Select one:

- ☐ a. None of the Above
- ☐ b. 9
- ☐ c. 0
- ☒ d. 10 ✓

Your answer is correct.

The correct answer is: 10

Question 10

Correct

Mark 2.00 out of 2.00

What will be the last character printed by the print statement?

```
1  #include <stdio.h>
2
3  int main()
4  {
5      int x;
6
7      for ( x = 0; x < 10; x++ ) {
8          printf( "%d\n", x );
9      }
10 }
```

Select one:

- ☐ a. Nothing
- ☒ b. 9 ✓
- ☐ c. 0
- ☐ d. 10

Your answer is correct.

The correct answer is: 9

Question 11

Correct

Mark 2.00 out of 2.00

A do while loop will run at least once irregardless of the condition.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 12

Correct

Mark 2.00 out of 2.00

A while loop will run once irregardless of the condition.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 13

Correct

Mark 2.00 out of 2.00

What is the output of the following program?

```
1  #include <stdio.h>
2
3  int main()
4  {
5      int *ptr;
6      int x;
7
8      ptr = &x;
9      *ptr = 5;
10
11     printf(" x = %d\n", x);
12     printf(" *ptr = %d\n", *ptr);
13
14     *ptr += 5;
15     printf(" x  = %d\n", x);
16     printf(" *ptr = %d\n", *ptr);
17
18     return 0;
19 }
```

Select one:

- ☐ a. x = 5
*ptr = 5
x = 5
*ptr = 5
- ☒ b. x = 5
*ptr = 5
x = 10
*ptr = 10 ✓
- ☐ c. Compile error

☐ d. $x = 0$

$*ptr = 0$

$x = 5$

$*ptr = 5$

Your answer is correct.

The correct answer is: $x = 5$

$*ptr = 5$

$x = 10$

$*ptr = 10$

Question 14

Correct

Mark 2.00 out of 2.00

What is the output of the following program?

```
1  #include <stdio.h>
2
3  int main () {
4
5      int var = 20;    /* actual variable declaration */
6      int *ip;         /* pointer variable declaration */
7
8      ip = &var; /* store address of var in pointer variable*/
9
10     printf("var variable: %x\n", &var );
11
12     return 0;
13 }
```

Select one:

- ☐ a. 20
- ☐ b. None of the above
- ☒ c. An address that stores the var variable ✓
- ☐ d. Compile error

Your answer is correct.

The correct answer is: An address that stores the var variable

Question 15

Correct

Mark 2.00 out of 2.00

Pointers store the memory location of where data is stored.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 16

Correct

Mark 2.00 out of 2.00

If a pointer is incremented, then they are incremented based on the size of the data type.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 17

Correct

Mark 2.00 out of 2.00

The & in front of a variable that is not a pointer will give the address of the variable.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 18

Correct

Mark 2.00 out of 2.00

How many bytes does a char data type represent?

Select one:

- ☐ a. 8
- ☐ b. 4
- ☒ c. 1 ✓
- ☐ d. 2

Your answer is correct.

The correct answer is: 1

Question 19

Correct

Mark 2.00 out of 2.00

How many bytes are needed to represent a integer?

Select one:

- ☐ a. 16
- ☐ b. 1
- ☐ c. 8
- ☒ d. 4 ✓

Your answer is correct.

The correct answer is: 4

Question 20

Correct

Mark 2.00 out of 2.00

A example of a valid char data type would be 'B'

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 21

Correct

Mark 2.00 out of 2.00

A valid type of integer is 2.0

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

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