CSPB 2400 - Park - Computer Systems

Started on	Friday, 19 January 2024, 4:32 PM
State	Finished
Completed on	Friday, 19 January 2024, 4:41 PM
Time taken	8 mins 58 secs
Marks	42.00/42.00
Grade	**10.00** out of 10.00 (**100**%)

Information

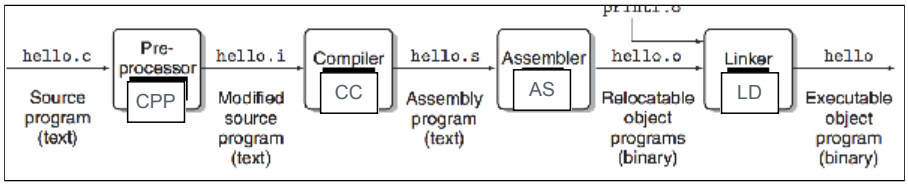
The following questions test your reading of Chapter 1.

Question **1**

Correct

Mark 2.00 out of 2.00

Compilation is composed of multiple steps. Drag the appropriate tools to the proper stage.



Your answer is correct.

Question **2**

Correct

Mark 2.00 out of 2.00

Fewer, Faster

- Registers ✔
- Level One Cache ✔
- Level Two Cache ✔
- Level Three Cache ✔
- RAM ✔
- Disks ✔
- Remote Storage ✔

More, Slower

Your answer is correct.

Question **3**

Correct

Mark 2.00 out of 2.00

Files are abstractions for [I/O devices] ✔ , virtual memory is an abstraction for [both the main memory and disk I/O devices] ✔ , and processes are abstractions for the [processor, main memory, and I/O devices] ✔ .

Your answer is correct.

Question **4**

Correct

Mark 2.00 out of 2.00

Fill in the following truth table for AND.

X	Y	X & Y
0	0	0 ✔
0	1	0 ✔
1	0	0 ✔
1	1	1 ✔

Question **5**

Correct

Mark 2.00 out of 2.00

Fill in the following truth table for OR.

X	Y	X | Y
0	0	0 ✔
0	1	1 ✔
1	0	1 ✔
1	1	1 ✔

Question **6**

Correct

Mark 2.00 out of 2.00

Fill in the following truth table for XOR.

X	Y	X ^ Y
0	0	0 ✔
0	1	1 ✔
1	0	1 ✔
1	1	0 ✔

Question **7**

Correct

Mark 2.00 out of 2.00

Perform a bit-wise AND of the following binary numbers:

	0	1	0	1
&	0	0	1	1
	0 ✔	0 ✔	0 ✔	1 ✔

Question **8**

Correct

Mark 2.00 out of 2.00

Perform a bit-wise AND of the following binary numbers:

	1	0	1	1	1	1
&	1	0	0	0	1	0
	1	0	0	0	1	0
	✔	✔	✔	✔	✔	✔

Question **9**

Correct

Mark 2.00 out of 2.00

Perform a bit-wise OR of the following binary numbers:

	1	0	0	1
|	1	1	0	0
	1 ✔	1 ✔	0 ✔	1 ✔

Question **10**

Correct

Mark 2.00 out of 2.00

Perform a bit-wise OR of the following binary numbers:

	0	0	0	0	1	1	0
|	0	1	0	0	0	0	1
	0	1	0	0	1	1	1
	✔	✔	✔	✔	✔	✔	✔

Question **11**

Correct

Mark 2.00 out of 2.00

Perform a bit-wise XOR of the following binary numbers:

	0	1	0	1	1
^	0	1	1	0	0
	0	0	1	1	1

Question **12**

Correct

Mark 2.00 out of 2.00

Perform a bit-wise XOR of the following binary numbers:

	1	0	1	0	0	1	1
^	1	0	1	1	0	0	1
	0	0	0	1	0	1	0

Question **13**

Correct

Mark 2.00 out of 2.00

Compute the C logical negation (!) of the following binary number:

!	0	0	0	0	0	1	0	1
	0	0	0	0	0	0	0	0

Question **14**

Correct

Mark 2.00 out of 2.00

Convert the binary number **10100101** into its hexidecimal equivalent assuming an 8-bit word.

Hexidecimal = A ✔ 5 ✔

Question **15**

Correct

Mark 2.00 out of 2.00

Convert the binary number **11101001** into its hexidecimal equivalent assuming an 8-bit word.

Hexidecimal = E ✔ 9 ✔

Question **16**

Correct

Mark 2.00 out of 2.00

Convert the binary number **01010100** into its hexidecimal equivalent assuming an 8-bit word.

Hexidecimal = 5 ✔ 4 ✔

Question **17**

Correct

Mark 2.00 out of 2.00

Convert the hexidecimal number **0x68** into its binary equivalent.

Binary = 0 ✔ 1 ✔ 1 ✔ 0 ✔ 1 ✔ 0 ✔ 0 ✔ 0 ✔

Question **18**

Correct

Mark 2.00 out of 2.00

Convert the hexidecimal number **0xf3** into its binary equivalent.

Binary = 1 ✔ 1 ✔ 1 ✔ 1 ✔ 0 ✔ 0 ✔ 1 ✔ 1 ✔

Question **19**

Correct

Mark 2.00 out of 2.00

Perform a 3-bit left shift of the following binary number:

0	1	0	1	1	<<3
1 ✔	1 ✔	0 ✔	0 ✔	0 ✔	

Question **20**

Correct

Mark 4.00 out of 4.00

Perform a 3-bit logical right shift of the following binary number:

1	0	1	0	1	0	1	>>3
0 ✔	0 ✔	0 ✔	1 ✔	0 ✔	1 ✔	0 ✔	

Perform a 3-bit arithmetic right shift of the following binary number:

1	0	1	0	1	0	1	>>3
1 ✔	1 ✔	1 ✔	1 ✔	0 ✔	1 ✔	0 ✔	