<u>Dashboard</u> / My cou	urses / <u>CS 1104-01 - AY2023-T3</u> / 2 March - 8 March / <u>Graded Quiz Unit 6</u>
Started on	Wednesday, 8 March 2023, 5:20 AM
	Finished
	Wednesday, 8 March 2023, 5:28 AM
	8 mins 7 secs
Marks	23.00/23.00
Grade	100.00 out of 100.00
Question 1	
Correct	
Mark 1.00 out of 1.00	
	[bar]=15 is conceptually the same as:
Select one:	
a. @bar, follo	
b. @foo, follo	
c. foo[*(bar)]	
d. *(foo+bar):	
e. All answers	s are wrong
The correct answer	r is: *(foo+bar)=15
Question 2 Correct	
Mark 1.00 out of 1.00	
A counter is comb	inational logic, that simply adds a constant (typically 1) to a given number.
Select one:	
True	
False ✓	
The correct argument	r in ITalaal
The correct answer	ris raise.

Question 3

Correct

Mark 1.00 out of 1.00

Variable, arrays, and objects are stored in the computer's ...

Data Memory

High level commands are translated into machine language and stored in the computer's ...

Instruction Memory

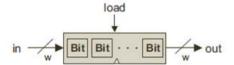
The correct answer is: Variable, arrays, and objects are stored in the computer's ... \rightarrow Data Memory, High level commands are translated into machine language and stored in the computer's ... \rightarrow Instruction Memory

Question 4

Correct

Mark 1.00 out of 1.00

In our text the following is known as a:



if load(t-1) then out(t) = in(t-1)else out(t) = out(t-1)

Select one:

- a. w-bit register

 ✓
- b. binary cell
- c. 1-bit register
- d. data flip-flop

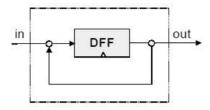
The correct answer is: w-bit register

Question 5

Correct

Mark 1.00 out of 1.00

Given the HDL language described in Appendix A, is the following design valid?



Select one:

- True
- False

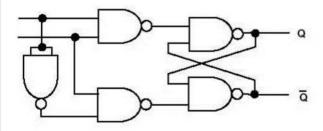
The correct answer is 'False'.

Question 6

Correct

Mark 1.00 out of 1.00

What is the function of the following circuit?



Select one:

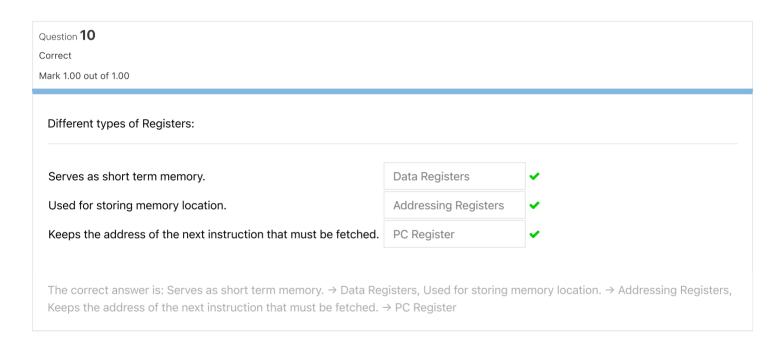
- a. DFF

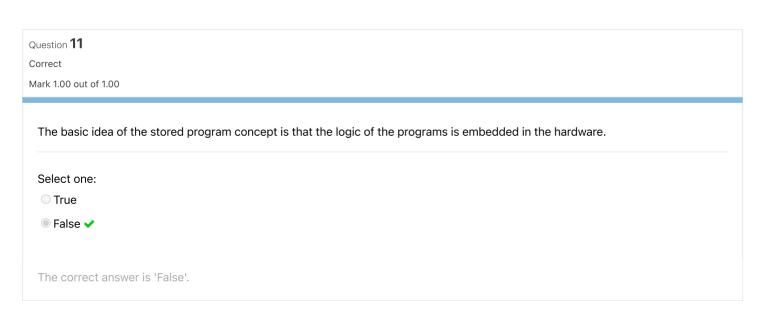
 ✓
- b. Full Adder
- oc. counter
- Od. SR Latch

The correct answer is: DFF

2023/03/27 1:12	Graded Quiz Unit 6: Attempt review
Question 7	
Correct	
Mark 1.00 out of 1.00	
The program that translates f	rom assembly to binary is called:
Answer:	
Assembler	
✓	
The correct answer is: Assem	bler
Question 8	
Correct	
Mark 1.00 out of 1.00	
Which of the following is NOT	a component of the CPU?
Select one:	
O a. ALU	
b. Control Unit	
O c. Registers	
d. RAM ✓	
The correct engines in DANA	
The correct answer is: RAM	

2023/03/27 1:12	Graded Quiz Unit 6: Attempt review
Question 9 Correct Mark 1.00 out of 1.00	
Which part of the CPU is in charge of decoding the infetch and execute next?	structions before they can be executed, and deciding which instruction to
Select one:	
c. Program Counterd. ROM	
The correct answer is: Control Unit	



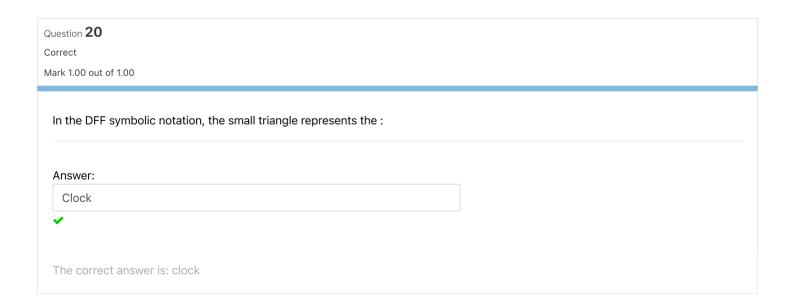


Question 12
Correct Mark 1.00 out of 1.00
Mark 1.00 out of 1.00
The Screen and Keyboard chips should be part of the chip.
Answer:
Memory
The correct answer is: Memory
Question 13
Correct Mark 1.00 out of 1.00
A-instruction is used for:
Select one:
a. Entering a constant.
b. Selecting a data memory location.
○ c. Selecting an instruction memory location.
○ d. All of these answers are correct.
The correct answer is: All of these answers are correct.
Question 14 Correct
Mark 1.00 out of 1.00
When implementing the a 1-bit register, we need to tell the register when to store a new data and when to keep storing its internal value. For that we need a : (Choose all correct answers)
Answer:
Multiplexor
✓
The correct answer is: multiplexor

Question 15 Correct		
Mark 1.00 out of 1.00		
The von Neumann architecture is bas	sed on a:	
central processing unit (),	CPU	✓
interacting with a device,	memory	✓
receiving data from some device,	input	✓
and sending data to some device.	output	✓
The correct answer is: central proces	sing unit ()	, → CPU, interacting with a device, → memory, receiving data from some
device, → input, and sending data to		
Question 16		
Correct		
Mark 1.00 out of 1.00		
Select one: a. data input, and a load bit b. data input, an address input, c. data input, and an address in d. data input, and a clock input The correct answer is: data input, an	put	
Question 17		
Correct		
Mark 1.00 out of 1.00		
True/False: The clock in a sequential	logic circuit k	reeps track of hours, minutes, and seconds in the local timezone.
Select one:		
○ True		
False ✓		
The correct answer is 'False'.		

2023/03/27 1:12	Graded Quiz Unit 6: Attempt review			
Question 18 Correct				
Mark 1.00 out of 1.00				
Match each command (written in typical m	nachine language syntax) to	o the memory access mode.		
LOADI R1,67	Immediate addressing	✓		
ADD R1,foo,j ; LOAD* R2,R1 ; STORE R2,x	Indirect addressing	✓		
LOAD R1,67	Direct addressing	✓		
The correct answer is: LOADI R1,67 → Imm R1,67 → Direct addressing	nediate addressing, ADD R ^a	1,foo,j ; LOAD* R2,R1 ; STORE R2,x → Indirect addressing, LOAD		

Question 19 Correct Mark 1.00 out of 1.00 DFF behavior can be represented as: Select one: a. out(t) = int(t-1) \bigcirc b. in(t) = out(t+1) \circ c. out(t) = out(t+1) \bigcirc d. out(t) = out(t-1) The correct answer is: out(t) = int(t-1)



Question 21						
Correct Mark 1.00 out of 1.00						
Which part of the C-Instruction instructs the ALU what to compute?						
Answer:						
comp						
The correct answer is: comp						
Question 22						
Correct Mark 1.00 out of 1.00						
What is the mnemonic for an instruction that causes an unconditional branch to a new instruction? Answer: jmp The correct answer is: jmp Question 23 Correct Mark 1.00 out of 1.00						
16-bit / 64-register memory						
16 is the of the register data width						
64 is the of the register size (number of words)						
The correct answer is: 16 is the of the register → data width, 64 is the of the register → size (number of words)						
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