Due Mar 2 at 11:59pm Points 18 Questions 8 Available Feb 23 at 12am - Mar 9 at 11:59pm Time Limit None

## Instructions

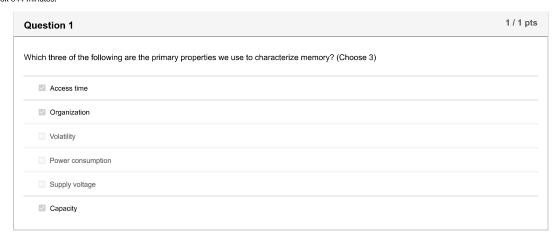
Read Sections 14.1-14.4 fro the text and Section 16 from the C8051F020 data sheet (https://faculty.weber.edu/fonbrown/EE3710/datasheets/C8051F02x-14.pdf). then answer the following questions. One try. No time limit.

## Attempt History

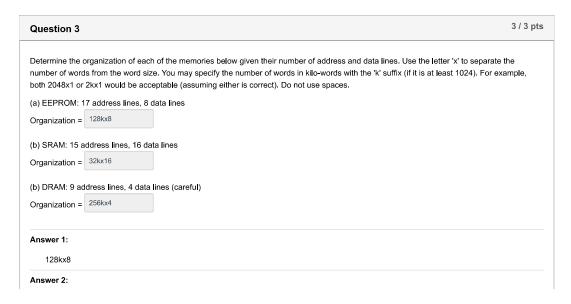
	Attempt	Time	Score
LATEST	Attempt 1	844 minutes	17 out of 18

① Correct answers will be available Mar 3 at 12am - Mar 9 at 12am.

Score for this quiz: **17** out of 18 Submitted Mar 2 at 10:31pm This attempt took 844 minutes.







32kx16	
Answer 3:	
256kx4	

Question 4		3 / 3 pts	
How many address lines and data lines for the memories listed below?			
(a) 256k x 8 EPROM			
Address lines = 18 , data lines =	8		
(b) 64k v 4 DDAM			
(b) 64k x 4 DRAM Address lines = 8 , data lines =	4		
, data illes –			
(c) 32k x 9 SRAM			
Address lines = 15, data lines =	9		
Answer 1:			
18			
Answer 2:			
8			
Answer 3:			
8			
Answer 4:			
4			
Answer 5:			
15			
Answer 6:			
9			

Question 5	3 / 3 pts
What is the capacity of each of the three memories shown below. You may use the 'k' or 'M' suffix for kilobits or megabits, respectively	•
(a) 256k x 8 EPROM	
Capacity = 2M bits	
(b) 64k x 4 DRAM	
Capacity = 256k bits	
(c) 32k x 16 SRAM	
Capacity = 512k bits	
Answer 1:	
2M	
Answer 2:	
256k	
Answer 3:	
512k	

Incorrect Question 6 0 / 1 pts

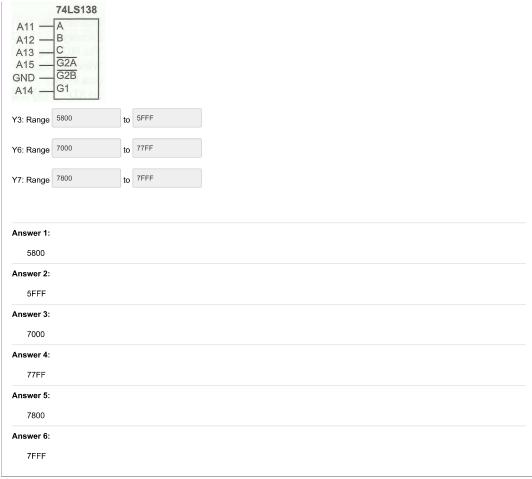
Find the address range of the memory design in the diagram, below. Give your answers each as four hexadecimal digits (no '0x' prefix and no 'H' suffix).



Find the address range for Y1, Y2 and Y5 (outputs of the 74LS138, not shown) for the memory decoder design shown below. Give your answers each as four hexadecimal digits (no '0x' prefix and no 'H' suffix). 74LS138 A A12 -В A13 -C G2A A14 -GND -G2B GND -G1 A15 to <sup>9FFF</sup> Y1: Range 9000 to AFFF Y2: Range A000 Y5: Range D000 to DFFF Answer 1: 9000 Answer 2: 9FFF Answer 3: A000 Answer 4: AFFF Answer 5: D000 Answer 6: DFFF

Question 8 3 / 3 pts

Find the address range for Y3, Y6 and Y7 (outputs of the 74LS138, not shown) for the memory decoder design shown below. Give your answers each as four hexadecimal digits (no '0x' prefix and no 'H' suffix).



Quiz Score: 17 out of 18