Name: CM#: A. The following two instructions are executed: Address Contents LDX \$21 $\rightarrow \times = \#23H$ LDD 2,+X $\rightarrow D = \#0021$, $\times = \#236$ Now register "A" contains \$ 00 \$DE \$0020 \$0021 \$02 \$0022 \$34 \$0023 \$02 register "B" contains \$ 21 register "X" contains \$ 0236 \$0024 \$02 \$0025 \$35 B. The following two instructions are executed \$0041 \$12 \$0042 \$34 \$0043 \$20 \$0044 \$00 Now register "Y" contains \$ 0237 and register "X" contains \$ 0021 \$0045 \$12 \$0205 \$10 \$0206 \$24 \$0234 \$00 \$0235 \$23 \$0236 \$00 \$0237 \$21 \$0238 \$05 \$0239 \$39 \$02DE \$35 C. The following instructions are LDX \$234 -> x = \$0023 \$02E0 \$01 LDX -3,X \rightarrow \times = \$PE02 LDY \$21 \rightarrow Y = \$023H LDAA 2,Y \rightarrow A = \$00 \$02E1 \$A5 LDAB [2,Y] \rightarrow B = # 02 \$02E2 \$36 D contains \$ 00 02 \$02E3 \$FE Now X contains # DE02 \$1004 \$89 \$1005 \$FE \$1024 \$45 \$1025 \$67 \$3437 \$20 \$3438 \$00 D. The following four instructions are \$3439 \$20 executed: \$343A \$02 LDS #\$1000 LDY #\$1234 PSHY -> SP-10FFE PULB \rightarrow B=#12 PULA \rightarrow A=#34 \$343B \$78 \$3734 \$37 PSHB -> SP = BOFFF \$3735 \$02 LEAY \$4321,Y Now accumulator register "Y" contains \$ 5555 "S" contains \$ OFFF "D" contains \$

E. Assume the memory map above, and that he following program fragment is executed from location START:

START:	LDAA #4		<i>r</i> ,	IRNIF
	CLRB	00	A=3 after	801
	LDX #\$0234	23	A=2	
LOOP1:	ADDB 1,X+		A = 1	
	DBNE A,LOOP1	00	1.	
	STAB \$800	+ 21	A = D	
LOOP2:	BRA LOOP2			
		44		

After the STAB instruction is executed, what is in A and X, and what is stored at location \$800?

$$A = \$ 60$$
 $X = \$ 0238$ (\$0800) = \$ 44 (Contents of address \$0800)