## HOMEWORK 5 – CS O449

Question 1:		With an inverted page table, and physical memory that is 4 GiB in size, and pages that are 2KiB in size, how large is the page table?							
	A:	2 GiB	B:	2 KiB	C:	1 KiB	D:	0.5 KiB	
	E:	2 MiB	F:	4 KiB	G:	0.5 GiB <b>H:</b>	782 Ki	В	
						Answei	:	E	
Question 2:				-				es, and a page size of ney are all the same	
	A:	24	B:	2 <sup>6</sup>	C:	28	D:	210	
	E:	2 <sup>5</sup>	F:	27	G:	2 <sup>9</sup>	H:	2 <sup>11</sup>	
						Answer:		Н	
Question 3:		To avoid a buffer overflow from being an effective security issue when a malicious actor uses one to inject code into a program, what is one possible strategy that could be used?							
	A: mark stack segment "read-only" B: mark stack segment as "non-execute"						cute"		
	C: mark code segment "writable" D: place data segment in high memory					ory			
						Answer:		В	

Consider the following (normal) page table and translate the addresses that follow.

I	Valid	Write	Execute	Physical Address
0000	1	0	1	e2f3
0001	0	0	0	0000
aff0	0	0	0	c233
aff1	1	1	0	b3d8
aff2	0	0	0	0000
fffc	0	0	0	563c
fffd	1	0	1	563b
fffe	1	0	0	aff1
ffff	1	0	0	af3d

Question 4: 0xaff1563b

L	<b>\:</b> 0xc233563b	<b>B:</b> 0xb3d8aff1 <b>C</b>	. 0xh3d8563h	<b>D:</b> page fault
,	TO CACESSOUSE I	D. OVOZUGALIT	o UNDSUGSUSD	D. Dage lault

Answer: C

Question 5: 0xfffc1240

**A:** 0x563c1240 **B:** 0xfffcaff1 **C:** 0xfffc1240 **D:** page fault

Answer: **D** 

## Submission:

Please modify this document and answer in the provided spaces and submit your completed document as a PDF to Gradescope. You may write in your answers and scan them in. Or carefully modify this document in Word and export to PDF.