Dashboard / My courses / Computer Engineering & IT / CEIT-Even-sem-21-22 / OS-even-sem-21-22 / 7 February - 13 February				
/ <u>Topic-wise Quiz: 2</u>	2: 9 Feb (bootloader, memory management basics, x86)			
Started on	Wednesday, 9 February 2022, 7:02:13 PM			
	Finished			
	Wednesday, 9 February 2022, 7:53:24 PM			
	51 mins 11 secs			
Grade	4.00 out of 11.00 (36 %)			
Question 1				
Complete				
Mark 0.00 out of 0.50				
Match the pairs of	which action is taken by whom			
Answer: bios load	Answer: bios loads the bootloader in memory			
The correct answer	is: kernel			
Question 2				
Not answered				
Marked out of 0.50				
code line, MMU setting: Match the line of xv6 code with the MMU setup employed				
	and the second of the second s			
Answer:				
The correct answer is: inb \$0x64,%al				

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Question 3	
Complete	
Mark 1.00 out of 1.00	
The kernel is loaded at Physical A	Address
○ a. 0x0010000	
b. 0x00100000	
oc. 0x80100000	
Od. 0x80000000	
The correct answer is: 0x0010000	00
Question 4	
Complete Mark 0.00 out of 1.00	
Mark 0.00 out 01 1.00	
The number of GDT entries setup	during boot process of xv6 is
O a. 2	
O b. 3	
O c. 0	
O d. 255	
e. 256	
O f. 4	

The correct answer is: 3

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Question 5	
Complete	
Mark 0.00 out of 1.00	
ELF Magic number is	
a. 0xELF	
b. 0xFFFFFFFF	
c. 0xELFELFELF	
○ d. 0x0x464CELF	
○ e. 0x464C457FU	
O f. 0	
g. 0x464C457FL	
The correct answer is: 0x464C457FU	
Question 6	
Complete Mark 0.00 out of 1.00	
which of the following is not a differen	ce between real mode and protected mode
a. in real mode general purpose re	egisters are 16 bit, in protected mode they are 32 bit
b. in real mode the addressable m	emory is less than in protected mode
oc. in real mode the segment is mu	ltiplied by 16, in protected mode segment is used as index in GDT
O d. in real mode the addressable m	emory is more than in protected mode
o e. processor starts in real mode	

The correct answer is: in real mode the addressable memory is more than in protected mode

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Question 7	
Complete	
Mark 1.00 out of 1.00	
x86 provides which of the following	ng type of memory management options?
a. segmentation or paging	
b. segmentation and one leve	el paging
oc. segmentation or one or two	o level paging
d. segmentation and two level	el paging
e. segmentation only	
f. segmentation and one or to	vo level paging
The correct answer is: segmentation	on and one or two level paging
Question 8	
Complete Mark 1.00 out of 1.00	
The kernel ELF file contains how m a. 3	nany Program headers?
O b. 10	
○ c. 2 ○ d. 9	
O e. 4	

The correct answer is: 3

10pi	c-wise Quiz. 2. 9 Feb (bootloader, memory management basics, xoo). Attempt review
Question 9	
Complete	
Mark 0.00 out of 1.00	
Why is the code of entry() in Assembly and	not in C?
a. Because the kernel code must begin	in assembly
b. Because it needs to setup paging	
c. There is no particular reason, it could	also be in C
 d. Because the symbol entry() is inside 	the ELF file
The correct answer is: Because it needs to se	etup paging
40	
Question 10 Complete	
Mark 1.00 out of 1.00	
The limp instruction in general door	
The ljmp instruction in general does	
a. change the CS and EIP to 32 bit mod	e
b. change the CS and EIP to 32 bit mod	e, and jumps to next line of code
c. change the CS and EIP to 32 bit mod	e, and jumps to new value of EIP
d. change the CS and EIP to 32 bit mod	e, and jumps to kernel code
The correct answer is: change the CS and El	P to 32 bit mode, and jumps to new value of EIP
J	
Question 11 Complete	
Mark 0.00 out of 1.00	
The right side of line of code "entry = (void	(*)(void))(elf->entry)" means
a. Convert the "entry" in ELF structure in	nto void
b. Get the "entry" in ELF structure and compared to the struc	convert it into a void pointer
oc. Get the "entry" in ELF structure and c	onvert it into a function void pointer

The correct answer is: Get the "entry" in ELF structure and convert it into a function pointer accepting no arguments and returning nothing

Od. Get the "entry" in ELF structure and convert it into a function pointer accepting no arguments and returning nothing

Question 12
Complete
Mark 0.00 out of 1.00
The variable \$stack in entry.S is
a. a memory region allocated as a part of entry.S
b. located at the value given by %esp as setup by bootmain()
○ c. located at less than 0x7c00
○ d. located at 0x7c00
e. located at 0
The correct answer is: a memory region allocated as a part of entry.S
→ Homework questions: Basics of MM, xv6 booting
Jump to

(Code) Files, redirection, dup, (IPC)pipe ►