	E283 – Virtualization rm Exam
Name	:
This e	exam is governed by the rules posted in the class Canvas discussions forum.
	the best answer for each question. Questions 1-10 are worth 5 points each. Questions 11-12 are 10 points each.
	Which of the following terms describes a possible treatment of floating point registers g a process context switch?
	A. MOV to CR3 B. Lazy switch C. Page fault D. FPU E. None of the above
2 Intel C	Which of the following best describes the size of the virtual address space on 32-bit CPUs?
	A. Always 32 bits B. Always more than 32 bits C. Sometimes more than 32 bits, depending on the CPU D. None of the above
	When operating in 64 bit (long) mode, the depth of the processor's paging structures directory/page table) is:
	<ul><li>A. 2 levels deep</li><li>B. 3 levels deep</li><li>C. 4 levels deep</li><li>D. There is not enough information provided to answer the question accurately</li></ul>
4	True/False: The x86 architecture provides for four privilege levels of operation.
	Which of the following contains mappings between interrupt vector numbers and upt handler routines?
	A. IDT B. LDT C. GDT D. SDT

E. None of the above

6 Which of the following will occur if "exit on HLT" is disabled and a guest OS executes
the HLT instruction, when running on a multiprocessor machine?
A. The VCPU will become unresponsive until a virtual interrupt is delivered B. The PCPU will become unresponsive until a physical interrupt is delivered C. The hypervisor will be unable to schedule other VCPUs on the PCPU that is halted D. All of A,B, and C E. None of A,B, or C
7 Which world switch consumes more CPU processing time during register read/write to/from the VMCS?
A. VM Entry B. VM Exit C. Both VM Entries and VM Exits take equal time
8 True/False: Prior to the introduction of Intel VMX/AMD SVM, it was not possible to fully virtualize a guest OS on the x86 platform.
9 Which of the following is a feature provided by a VMM?
<ul><li>A. Scheduling VCPUs on PCPUs</li><li>B. Scheduling processes on CPUs</li><li>C. Handling system calls from processes</li><li>D. All of the above</li><li>E. None of the above</li></ul>

10. Describe the treatment of SGDT in a virtualized environment.

1. Describe the process used by the CPU when translating a virtual address to a physical address oints will be awarded based on the completeness of your answer.
2. Describe the scheduling responsibilities of a VMM.