reviewer4@nptel.iitm.ac.in ▼ Courses » Computer Organization and Architecture A Pedagogical Aspect Announcements Course Ask a Question **Progress** FAQ Unit 11 - Week 10: **Memory Sub-system Organization** Register for **Assignment for Week 10 Certification exam** The due date for submitting this assignment has passed. Course As per our records you have not submitted this Due on 2019-04-10, 23:59 IST. outline assignment. 1) In internal fragmentation, memory is internal to a partition and: 1 point How to access the portal is being used Week 1: is not being used Fundamentals of **Digital Computer** is always used None of the above Week 2: Fundamental of No. the answer is incorrect. **Digital Computer** Score: 0 Week 3: **Accepted Answers:** Addressing is not being used Modes. **Instruction Set** 2) Consider a system with 32-bit virtual address space. What will be the number of page table 1 point and Instruction entries if the page size is 1KB? **Execution Flow** 232 Week 4: 222 Addressing Modes, Instruction Set and Instruction **Execution Flow** No, the answer is incorrect. Week 5: Score: 0 Addressing **Accepted Answers:** Modes, 222 Instruction Set and Instruction 3) Larger page sizes leads to -----1 point **Execution Flow** Transfer errors Week 6: Organization Increase in operation time © 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -In association with A project of

Funded by

of Microprogrammed Controlled Control Unit Week 8: Organization 4) Which among the following is true? 4) Which among the following is true? 0 points 0 p	ts
Control Unit The memory allocated to each page is contiguous. Week 8: The offset is different in a virtual address and a physical address	
Week U.	
Eudical address space can be sinalier than bitysical address space	
and Optimization of Micro- Segmentation avoids external memory fragmentation	2
programmed Controlled No, the answer is incorrect.	
	2
Accepted Answers: Week 9: Memory The memory of legacing to contiguous	_
Sub-system	2
If the size of the page is 1KB and page table entry size is 2Bytes, what is the size of inverted page	æ
Week 10: table?	_
Sub-system Organization	2
252 Bytes	
Basics of Virtual Memory 251 Bytes	
and Address Translation 64 Bytes	
Paging and	
Segmentation No, the answer is incorrect.	
TLBs and Page Fault Handling Accepted Answers:	
Fault Handling Accepted Answers: 128 Bytes	
Assignment for 6) Which among the following will be triggered when a request to the page that is not present 1 poir	nt
Week 10 in the main memory is accessed?	
Week 11: Memory Interrupt	
Sub-system Paguest	
Organization Page fault	
Week 12: Input/output None of the above	
Subsystem No, the answer is incorrect.	
TEXT Score: 0	
TRANSCRIPTS Accepted Answers:	
Page fault	
7) A CPU generates 32-bit virtual addresses .The page size is 4KB .The processor has a TLB 1 poir which can hold 128 entries and is 4-way set associative .The size of the TLB tag is?	ηt
O 15	
O 11	
12	
1 4	
No, the answer is incorrect.	
Score: 0	
Accepted Answers:	
15	
8) Page fault occurs when 1 poir	ηt

a requested page is in memory	
a requested page is not in memory a page is corrupted None of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers: a requested page is not in memory	
9) TLB lookup takes 5ns and memory access time is 100ns in a hypothetical system. TLB hit ratio is 80%, what will be the effective access time assuming that the system is	-
100ns	
120ns	
105ns	
125ns	
No, the answer is incorrect. Score: 0	
Accepted Answers: 125ns	
10)Consider a paged system with page table stored in virtual memory with virtual add space size of 2 ⁶⁴ bits. If a memory access takes 128ns, how long does a paged memotake?	
128ns	
120ns	
256ns	
○ 64ns	
No, the answer is incorrect. Score: 0	
Accepted Answers: 256ns	
Previous Page	End