1.	. Consider a logical address space of 256pages with a 4-KB page size	e, mapped onto a physical memory of 64 frames.
	<ul><li>a. How many bits are required in the logical address?</li><li>b. How many bits are required in the physical address?</li></ul>	
	Answer:	
	a. Logical address: ① bits b. Physical address: ② bits	
植艺		
%-J		
1	20	
2	18	
	正确答案:	
	① 20 ② 18	
2.		ring logicaladdresses?
	Segment Base Length 0 219 600	
	1 2300 14	
	2 90 100	
	3 1327 580	
	4 1952 96	
	What are the physical addresses for the following logical addresses	? (Physical addresses = Segment Base Address + Offset
	请在下面空中依次填写十进制数值答案,如果是无效地址,请填写:inv	
	a. 0,430 Answer: 1	
	b. 1,10 Answer: ②	
	c. 2,500 Answer: 3	
	d. 3,400 Answer: 4	
	e. 4,112 Answer: (5)	
植艺	望空题 (20 分)   20 分   (请按题目中的空缺顺序依次填写答案)	
77		
1	649	
_	2310	
2		
3	invalid	
4	1727	
$\sim$	invalid	
5	5)	
Ī	正确答案:	

- 1 649
- 2 2310
- 3 invalid
- 4 1727
- 5 invalid

	numbers): 请在下面空中依次填写十进制数值答案
	a. 3085 page numbers: ① , offsets: ②
	b. 42095 page numbers: 3 , offsets: 4
	c. 215201 page numbers: 5 , offsets: 6
填空	题 (18 分)  18 分  (请按题目中的空缺顺序依次填写答案)
1	3
2	13
3	41
4	111
5	210
6	161
	210 3 161
4.	Consider a paging system with the page table stored in memory.  a. If a memory reference takes 50 nanoseconds, how long does a paged memory reference take?  b. If we add TLBs, and if 75 percent of allpage-table references are found in the TLBs, what is the effective memory reference time? (Assume that finding a page-table entry in the TLBs takes 2 nanoseconds, if the entryis present.)
	Answer: a. ① ns
	a. <u>(1)</u> ns b. <u>(2)</u> ns
指穴	题 (14 分)  14 分  (请按题目中的空缺顺序依次填写答案)
_	100
1	
2	64.5
	- 确答案: 100
	64.5

3. Assuming a 1-KB page size, what are the page numbers and offsets for the following address references (provided as decimal

5.	fit, and worst-fit algorithms place processes of size 200 MB, 15 ME	3, 185 MB, 75 MB, 175 MB, and 80 MB (in order)?	•	
	请在下面空中依次填写答案。如果某进程能放入到空闲分区中,填写该分区的数字,如:100;如果某进程无法放入到空闲分区中,! must wait			
	First-fit:			
	a. 200M process put in 1 M partition			
	b. 15M process put in 2 M partition			
	c. 185M process put in <u>③</u> M partition			
	d. 75M process put in <u>4</u> M partition			
	e. 175M process must 5 M partition			
	f. 80M process put in 6 M partition			
	Best-fit			
	a. 200M process put in M partition			
	b. 15M process put in $\_$ $_{f 8}$ M partition			
	c. 185M process put in <u>9</u> M partition			
	d. 75M process put in M partition			
	e. 175M process put in M partition			
	f. 80M process put in <u>②</u> M partition			
	Worst-fit:			
	a. 200M process put in M partition			
	b. 15M process put in (4) M partition			
	c. 185M process put in M partition			
	d. 75M process put in 6 M partition			
	e. 175M process M partition			
	f. 80M process put in M partition			
填空	空题 (18 分)  18 分  (请按题目中的空缺顺序依次填写答案)			
1	205			
<u></u>	100			
(2)				
	300			
3				
	100			
4	) 100			
(5)	185			
6	) 170			
7	205			
·				
	40			
8				
	185			
9	) 103			
10	100			
(11)	300			
-				
12	300			
_				

13	300				
14)	205				
15)	205				
16	185				
17)	must wait				
(18)	170				
	E确答案:	rtain embedded devices, it has only a 16-bit physicaladdress. It			
0.	6. The BTV operating system has a 21-bitvirtual address, yet on certain embedded devices, it has only a 16-bit physicaladdress. It also has a 2-KB page size. How many entries are there in each ofthe following?  a. A conventional, single-level page table . Answer: ① (填写10进制数)  b. An inverted page table. Answer: ② (填写10进制数)				
填空	题 (16 分)  16 分  (请按题目中的空缺顺序依次填写答案)				
1	1024				
2	32				
(	三确答案: 1024 2) 32				