Unit-III Protection and Multitasking Multiple Choice Questions'- Set 1

1. 7	The Applicat	tions are rela	ited with	privilege level.				
	Level 0	b) Level 1	c) Level	2 <u>d) Level 3</u>				
			_	determines the	•			
a) I	RPL	b) DPL	c) CPL	d) IOPL				
2 1	X71-1-1 C /1-	. C- 11	4 4 4					
				aspect of 80386				
				b) Restriction of interrupt entry	• •			
C) I	xestriction of	or procedure	entry points	d) Restriction of instruction se	μ			
4.	The limit bit	in data segn	nent descriptor i	S				
	5-bit	_	c) 2-bit	d) 4-bit				
u) (<i>y</i> 010	0,000	c) 2 on	<u>a, . s.</u>				
5. I	n the execut	table segmer	nt descriptor the	conforming bit comes under				
a) I	Limit	b) Type	c) Base	d) Offset				
6. 7	The linear ac	ddress is calc	culated by					
<u>a) e</u>	effective add	<u>lress + segm</u>	ent base address	<u>5</u>				
b) 6	effective add	iress –segme	ent base address					
c) e	effective add	lress + physi	cal address					
d) 6	effective add	dress –physic	cal address					
			led, then it conv	verts linear address into				
,	Effective add							
	ohysical add							
	segment base							
d) 1	none of the i	mentioned						
QΙ	f the naging	unit ic dical	aled then the lin	ear address is used as				
	effective add		orea, then the mi	ical address is used as				
	ohysical add							
	segment base							
-	none of the i							
<i>u</i> , <i>i</i>		110110101104						
9. 7	The paging ι	ınit is enable	ed only in					
a) v	virtual mode		•					
b) a	addressing n	node						
c) p	protected mo	<u>ode</u>						
d) 1	none of the i	mentioned						
10		. 1		00000	2			
10. For a single task in protected mode, the 80386 can address the virtual memory of								
,	32 GB							
-	64 MB							
,	32 TB							
a) (<u>54 TB</u>							

11. The bit that indicates whether the segment has been accessed by the CPU or not is a) base address b) attribute bit c) present bit d) granular bit
12. The TYPE field of descriptor is used to find the a) descriptor type b) segment type c) descriptor and segment type d) none
13. If the segment descriptor bit, S=0, then the descriptor is a) data segment descriptor b) code segment descriptor c) system descriptor d) all of the mentioned
14. The bit that indicates whether the segment is page addressable isa) base addressb) attribute bitc) present bitd) granularity bit
15. If the Default operation size bit, D=1, the code segment operation size selected is a) 8-bit b) 16-bit c) 32-bit d) 64-bit
16. The segment descriptor containsa) access rightsb) limitc) base addressd) all of the mentioned
17. Which of the following is not a type of segment descriptor?a) system descriptorsb) local descriptorsc) gate descriptorsd) none
18. The limit field of the descriptor is of a) 10 bits b) 8 bits c) 16 bits d) 20 bits Answer: d

 19. The starting address of the segment in physical memory is decided by a) physical memory b) segment descriptors c) operating system d) base address
20. The total descriptors that the 80386 can handle is a) 2K b) 8K c) 4K d) 16K
 21. The advantage of pages in paging is a) no logical relation with program b) no need of entire segment of task in physical memory c) reduction of memory requirement for task d) all of the mentioned
22. The size of the pages in paging scheme is a) variable b) fixed c) both variable and fixed d) none
23. To convert linear addresses into physical addresses, the mechanism that the paging unit uses is a) linear conversion mechanism b) one level table mechanism c) physical conversion mechanism d) two level table mechanism
24. The control register that stores the 32-bit linear address, at which the previous page fault is detected is a) CR0 b) CR1 c) CR2 d) CR3
 25. Which of the following is not a component of paging unit? a) page directory b) page descriptor base register c) page table d) page
26. The control register that is used as page directory physical base address register is a) CR0 b) CR1 c) CR2 d) CR3

27. The bits of CR3, that are always zero are a) higher 4 bits b) lower 8 bits c) higher 10 bits d) lower 12 bits
28. Each directory entry in page directory is maximum of a) 2 bytes b) 4 bytes c) 8 bytes d) 16 bytes
29. The size of each page table is of a) 2 Kbytes b) 2 bytes c) 4 Kbytes d) 4 bytes
30. The dirty bit(D) is set, before which operation is carried out a) write b) read c) initialization d) none of the mentioned
31. The bit that is undefined for page directory entries is a) P-bit b) A-bit c) D-bit d) all of the mentioned
32. The bit that is used for providing protection is a) User/Supervisor bit b) Read bit c) Write bit d) all of the mentioned
33. The storage of 32 recently accessed page table entries to optimize the time, is known as a) page table b) page descriptor base register c) page table cache d) none of the mentioned
34. The page table cache is also known as a) page table storage b) storage buffer c) translation look aside buffer d) all of the mentioned
35. In TSS of 80386 the field PDBR is associate with

a) static	b) dynamic	c) rese	erved	d) ban	k						
•	nic set includes b) PDI				wing: d) GD7	Γ					
37. The task state a) 7	tate segment de b) 8	scriptor the 'B <u>c) 9</u>		number	·						
38. The TSS with a selector that has TI = 1 results in an exception. a) Indicating the current LDT											
39. The SELE a) TSS	CTOR field of b) base	a task gate mus address	st refer to a c) Segment L	imit	 d) TSS descrip	<u>otor</u>					
a) The currentb) An interrupc) The current	task executes a t or exception v task executes 3 task executes a	nn IRET when to vectors to a task IMP or CALL t	the NT flag is so the gate in the ID That refers to the	set. T. <u>e LDT.</u>		following cases:					
41. The NT flag indicates whether the field is valid. a) front-link b) back-link c) next-link d) previous-link											
42. The new to a) IRET instru	ask releases cor action b) LAI	ntrol by executi R instruction	ing c) LSL instru	 ction	d) VERW instr	ruction					
a) same add	for tasks to haress spaces d) externa	<u>b</u>)	contiguous	rtant asp address	ect of 80386 pr spaces	otection. c) distinct address					
44. In task nes a) TSS	sting b) TSS descrip	pointing to tor c) Tasl			Register						
45. If CPL=0 a) User level	then the proces b) Sup	ssor is executin ervised level	-	S level	d) No	ne of these					
Answers:											
1. d)	2. c)	3. b)	4. d)	5. b)							
6. a)	7. b)	8. b)	9. c)	10. d)							
11. b)	12. c)	13. c)	14. d)	15. c)							
16. d)	17. d)	18. d)	19. c)	20. d)							
21. d) 26. d)	22. b) 27. d)	23. d) 28. b)	24. c) 29. c)	25. b) 30. a)							
31. c)	32. d)	33. c)	34. c)	35. a)							
36. c)	37.c)	38. a)	39. d)	40. c)							
41. b)	42. a)	43. c)	44. d)	45. b)							