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

1. The Ap	plications are relat	ted with	privilege level.
	b) Level 1		
-	_	_	determines the
a) RPL	b) DPL	c) CPL	d) IOPL
			20000
	of the following is	-	-
*			b) Restriction of interrupt entry point
c) Restrict	tion of procedure of	entry points	d) Restriction of instruction set
1 The lim	sit hit in data coom	ant deserinter i	
	nit bit in data segm	-	d) 4-bit
a) 6-bit	D) 3-DIL	c) 2-bit	a) 4-bit
5. In the e	xecutable segmen	t descriptor the	conforming bit comes under
a) Limit	b) Type		d) Offset
,	-) -JF-	-,	5, 5 5
6. The line	ear address is calcu	ulated by	
	e address + segme	•	8
,	ve address –segme		
	e address + physic		
	ve address –physic		
<i>a)</i> 0110011	e address physic	ar address	
7. If the p	aging unit is enabl	ed, then it conv	verts linear address into
-	ve address	,	
b) physica			
	nt base address		
	f the mentioned		
,			
8. If the p	aging unit is disab	led, then the lir	near address is used as
a) effectiv	e address		
b) physica	ıl address		
c) segmen	nt base address		
d) none of	f the mentioned		
	ging unit is enable	d only in	
a) virtual	mode		
b) address	sing mode		
c) protecto	ed mode		
d) none of	f the mentioned		
10 Г	ational and the second		00206
	single task in prote	ected mode, the	80386 can address the virtual memory of
a) 32 GB			
b) 64 MB			
c) 32 TB			
d) 64 TB			

11. The bit that indicates whether the segment has been accessed by the CPU or not isa) base addressb) attribute bitc) present bitd) granular bit
12. The TYPE field of descriptor is used to find thea) descriptor typeb) segment typec) descriptor and segment typed) 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 bya) physical memoryb) segment descriptorsc) operating systemd) 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 isa) no logical relation with programb) no need of entire segment of task in physical memoryc) reduction of memory requirement for taskd) all of the mentioned
22. The size of the pages in paging scheme isa) variableb) fixedc) both variable and fixedd) none
 3. 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 directoryb) page descriptor base registerc) page tabled) 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 tableb) page descriptor base registerc) page table cached) 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) bar	ık		
	nic set includes b) PDI				•	I) GDT	
37. The task sta) 7	tate segment de b) 8	scriptor the 'B'		number	·		
a) Indicating t	vith a selector the current LDT he current GDT	b) Indi	cating the cur	rent IDT	1	exception.	
39. The SELE a) TSS	CTOR field of b) base	a task gate mus address	st refer to a c) Segment I	Limit	 d) TSS (descriptor	
a) The currentb) An interrupc) The current	task executes a t or exception v task executes a task executes a	nn IRET when the control of the cont	the NT flag is a gate in the II hat refers to the	set. DT. ne LDT.		e from following cases:	
41. The NT fla a) front-link	ag indicates wh b) bac	ether the k-link	field is c) next-link	s valid.	d) prev	ious-link	
42. The new ta a) IRET instru	ask releases cor action b) LAI	ntrol by executi R instruction	ng c) LSL instru	 iction	d) VERV	V instruction	
a) same add	for tasks to haress spaces d) externa	b)	contiguous	rtant asp address	spaces	386 protection. c) distinct add	dress
44. In task nes a) TSS	sting b) TSS descrip	pointing to tor c) Task			k Registe	r	
45. If CPL=0 a) User level	then the proces b) Sup	ssor is executing ervised level	_	S level	_•	d) None 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) 21. d)	17. d) 22. b)	18. d) 23. d)	19. c) 24. c)	20. d) 25. b)			
26. d)	27. d)	28. b)	24. c) 29. c)	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)			