MULTIPLE CHOICE QUESTIONS (MCQ's)

1.	What is operand?		
	(a) Machine code	(b)	Data
	(c) Machine code of instruction	(d)	None of these
2.	What is opcode?		
	(a) Machine code	(b)	data
	(c) Machine code of instruction	(d)	None of these
3.	Which addressing mode is fastest in 80386	5 mi	croprocessor?
	(a) Immediate addressing		Register addressing
	(c) Direct memory addressing		Register indirect addressing
4.	Which register cannot be used in register i		
	(a) ESI		EBX
	(c) EBP	٠,	ESP
5.	• •	٠,	nd instructions, which registers can be used
	as base register?		
	(a) ESX, EBP	(b)	ESI, EDI
	(c) both (a) and (b)		
_	(d) All general purpose registers except ES		
6.	·	nd a	and instructions which registers can be used
	as index registers? (a) EBX, EBP	(h)	ESI, EDI
	(a) EDA, EDF (c) both (a) and (b)	(D)	ESI, EDI
	(d) All general purpose registers except ES	SP	
7.			address of the operand present in the
	following instruction:		
	MOV AX, [BX] [DX * 2]		
	Given : $AX = 2000H$, $DX = 3000H$, $DS = 10$	00H	, CS = 2000H
	(a) 28000H	(b)	09000H
	(c) 18000 H	(d)	0A000H
8.	What is the addressing mode of MOV AX,	[SI]	instruction?
	(a) Indexed addressing mode	(b)	Register indirect addressing mode
	(c) Indirect addressing mode		All of above
9.	What is the addressing mode of MOV AX,	[BP	[DI]?
	(a) Based addressing mode		Register indirect addressing mode
	(c) Indexed addressing mode		Based Indexed addressing mode
10.	Which of the following is an illegal instruct		_
	(a) MOV AX, 3000		INC AI,1
	(c) aNd bx,bx		add ax,30

11.	Given that the BL register contains ASCII will change BL so that it contains ASCII val			which of the following instructions
	(a) or bl, 0010 0000	(b) and	d bl,	0010 0000
	(c) or bl, 1101 1111	(d) and	d bl,	,1101 1111
12.	Given that the BL register contains ASCII	alue of	'b',	which of the following instructions
	will change BL so that it contains ASCII val	ue of 'B'	1	
	(a) or bl, 0010 0000	(b) and	d bl,	0010 0000
	(c) or bl, 1101 1111	(d) and	d bl,	,1101 1111
13.	Which of the following is an illegal instruct	ion?		
	(a) MOV Ax, 30000	(b) iNc	: Al	
	(c) aNd bx, bx	(d) add	d ax,	. 30
14.	Which of the following is an illegal 80386	nstruction	on	
	(a) mov 20, bx	(b) iNc	: Al	
	(c) aNd bx, bx	(d) add	d ax,	. 30
15.	Which of the following is an illegal 80386	nstruction	on?	
	(a) mov ax, [bx]	(b) iNc	[bx]]
	(c) aDd bx, [bx]	(d) add	d ax,	c, [cx]
16.	The net effect of calling the following su	bprogra	am ii	n terms of program behavior is to
	MOV AX, 8000H			
	MOV BX, AX			
	PUSHAX			
	POP BX			
	ADD BX, 10			
	PUSH BX			
	POP AX			
	(a) leave ax unchanged			
	(b) add 10 to ax			
	(c) cause the program to behave in an un	oredicta	ble i	manner
	(d) do nothing			
17.	A conditional jump instruction			
	(a) always cause a transfer of control			
	(b) always involves the use of the status re	gister		
	(c) always modifies the program counter			
	(d) always involves testing the Zero flag			
18.	An interrupt instruction			
	(a) causes an unconditional transfer of co	ntrol		
	(b) causes a conditional transfer of contro			

	(c) modifies the status register						
10	(d) is an I/O instruction						
19.	A data movement instruction will						
	(a) modify the status register						
	(b) modify the stack pointer						
	(c) modify the program counter	athau					
20	(d) transfer data from one location to an The read/write line is	other					
20.	•						
	(a) belongs to the data bus						
	(b) belongs to the control bus						
	(c) belongs to the address bus(d) CPU bus						
21	The instruction INC I where I is a memory	variable involves					
ZI .	(a) a memory read operation	variable involves					
	(b) a memory write operation						
	(c) a memory write operation (c) a memory read and a memory write of	operation arithmetic operation					
	(d) only an arithmetic operation	peration, antimiene operation					
22	A hardware interrupt is						
	(a) also called an internal interrupt						
	(b) also called an external interrupt						
	(c) an I/O interrupt						
	(d) a clock interrupt						
23.	An assembly language program is typical	ly					
	(a) non-portable						
	(b) shorter than an equivalent HLL progra	am					
	(c) harder to read than a machine code p	program					
	(d) slower to execute than a compiled HL	L program					
24.	An assembly language program is transla	ted to machine code by					
	(a) an assembler	(b) a compiler					
	(c) an interpreter	(d) a linker					
25.	An assembly language directive is						
	(a) the same as an instruction						
	(b) used to define space for variables						
	(c) used to start a program						
	(d) to give commands to an assembler						
26.	Which of the following is not an TASM di	rective					
	(a) .stack	(b) db					

 27. When a program is translated by the TASM assembler, the machine code is stored in a file with the extension (a) .lis (b) .obj (c) .exe (d) .out 28. 167a. The output of the linker (LINK command) is stored in a file with the extension (a) .lis (b) .obj (c) .exe (d) Ink 	
(a) .lis (b) .obj (c) .exe (d) .out 28. 167a. The output of the linker (LINK command) is stored in a file with the extension (a) .lis (b) .obj	
(c) .exe (d) .out 28. 167a. The output of the linker (LINK command) is stored in a file with the extension (a) .lis (b) .obj	
28. 167a. The output of the linker (LINK command) is stored in a file with the extension (a) .lis (b) .obj	
(a) .lis (b) .obj	
(c) ovo	
29. The call instruction is used to	
(a) access subprograms (b) access memory	
(c) perform I/O (d) access the stack	
30. The effect of the following instructions	
push ax	
add ax, 4	
pop bx	
mov cx, ax push bx	
pop ax	
on the ax register is	
(a) leave it with its original value (b) add 4 to it	
(c) clear it (d) double it	
31. What is the effect of the following instructions? mov ah, 2h	
int 21h	
(a) read a character into al (b) read a character into dl	
(c) display the character in al (d) display the character in dl	
32. What is the effect of the following instructions	
mov ah, 1h	
int 21h	
(a) read a character into al (b) read a character into dl	
(c) display the character in al (d) display the character in dl	
33. Given that al contains the ASCII code of an uppercase letter, it can be converted to	
lowercase	
by	
(a) add al,32 (b) sub al, 32	
(c) or al, 1101 1111 (d) and al, 0010 0000	
34. Given that all contains the ASCII code of a lowercase letter, it can be converted to	
uppercase by	

	(a) add al, 32	(b)	sub al, 32
	(c) or al, 1101 1111	(d)	and al, 0010 0000
35.	Given that al contains the ASCII code of	of ar	uppercase letter, it can be converted to
	lowercase by		
	(a) add al,30		sub al, 30
	(c) or al, 0010 0000		and al, 0010 0000
		of a	lowercase letter, it can be converted to
	uppercase by	(h)	sub at 20
	(a) add al, 32 (c) or al, 1101 1111		sub al, 30 and al, 1101 1111
	The instruction JG operates with	(u)	and all IIII
<i>.</i>	(a) unsigned numbers	(b)	2's complement numbers
	(c) floating point numbers		ASCII codes
	The instruction JA operates with	` ,	
	(a) unsigned numbers	(b)	signed numbers
	(c) floating point numbers	(d)	ASCII codes
39.	The instruction mov str[si], 'a' is an examp	le of	:
	(a) indirect addressing	(b)	indexed addressing
	(c) direct addressing	(d)	register addressing
40.	The instruction mov ax, [bx] is an example	of	
	(a) indirect addressing	(b)	indexed addressing
	(c) direct addressing	(d)	based addressing
41.	The instruction JE label is an example of		
	(a) indirect addressing	(b)	indexed addressing
	(c) relative addressing	(d)	immediate addressing
42.	The call instruction stores the return addre	ess f	or a subprogram
	(a) on the stack	(b)	in the memory address register
	(c) in the CS:IP	(d)	does not involve using the return address
43.	Given that dl contains 'x' which of the follo	owin	g will cause 'x' to be displayed:
	(a) mov ah, 1h, int 21h	(b)	mov ah, 2h, int 21
	(c) mov ah, 2h, int 21h	(d)	mov ah, 0h, int 21h
44.	Which of the following will read a character	er in	to al?
	(a) mov ah, 1h, int 21		mov ah, 2h, int 20h
	(c) mov ah, 2h, int 21h		mov ah, 1h, int 21h
45.	Which of the following will display a string	` '	
	(a) mov ah, 0h; int 21h		mov ah, 2h; int 21h
		-	

	(c) mov ah, 9h; int 21	(d) mov ah, 9h; int 21h
46.	Which of the following will terminate a pro-	ogram and return to MS-DOS?
	(a) mov ax,4c00h; int 21h	(b) mov ax,4c00h; int 20h
	(c) mov dx,4c00h; int 21h	(d) mov ax, 9h; int 21h
47.	The CMP instruction modifies the	
	(a) IP or CS: IP	(b) destination register
	(c) flag register	(d) segment register
48.	Conditional instructions typically inspect t	he
	(a) IP or CS: IP	(b) destination register
	(c) flag register	(d) accumulator
49.	The call instruction modifies	
	(a) the flags register	(b) IP or CS: IP
	(c) BP register	(d) none of the these
50.	The call instruction modifies	
	(a) the flags register	(b) stack pointer
	(c) BP register	(d) none of the these
51.	The call instruction modifies	
	(a) IP or CS: IP and SP register	(b) flags register
	(c) BP register	(d) none of the previous
52.	The ret instruction modifies the	
	(a) IP or CS: IP and SP register	(b) flags register
	(c) BP register	(d) none of the previous
53.	The contents of different registers are give	en below. Form Effective addresses for different
	addressing modes of real mode of 80386	
	Given: Offset = 5000H, [AX]- 1000H, [BX]-	2000H, [SI]- 3000H, [DI]- 4000H, [BP]- 5000H,
	[SP]- 6000H, [CS]- 0000H, [DS]- 1000H, [SS	5]- 2000H, [IP]- 7000H.
I.	MOV AX, [5000H]	
	(a) 5000H	(b) 15000H
	(c) 10500H	
II.	MOV AX, [BX] [SI]	
	(a) 13000H	(b) 15000H
	(c) 12000H	
III.	MOV AX, 5000H [BX] [SI]	
	(a) 20000H	(b) 1A000H

	(c) 1A00H		
54.	The conditional branch instruction JNS per	rforr	ns the operations when if $_$
	(a) $ZF = 0$	(b)	SF=0
	(c) SF=1	(d)	CF=0
55.	What is the output of the following code?		
	MOV AL,88H ;88H is BCD number		
	MOV CL,49 ; 49H is BCD number		
	ADD AL, CL		
	DAA		
	(a) D7, CF=1	(b)	37, CF=1
	(c) 73, CF=1	(d)	7D, CF=1
56.	What is the output of the following code?		
	MOV AL, 49H ; 49H is BCD number		
	MOV BH,72H ; 72H is BCD number		
	SUB AL, BH		
	DAS		
	(a) AL=D7, CF=1.	(b)	AL=7D, CF=1.
	(c) AL=77, CF=1	(d)	none of them
57.	What is the output of the following code?		
	MOV AL, -28 MOV BL,59		
	IMUL BL		
	AX=? , MSB=?		
	(a) AX= F98CH, MSB=1		AX= 1652, MSB=1.
58	(c) BX F9C8H, MSB=1 What is the output of the following code?		BX= 1652, MSB=1
50.	MOV AL, 00110100B		
	MOV BL, 00111000B		
	ADD AL, BL		
	AAA (a) AL = 6CH	(h)	AX=0102H
	(c) AX=0012 H	. ,	AL=C6H
59.	What is the output of the following code?		
	MOV AL,00110101B		
	MOV BL, 39H SUB AL, BL		
	AAS		
	(a) AL= 00000100, CF=1		BL=00000100, CF=0
	(c) AL=11111100 CF=1	(d)	BL=00000100, CF=1

60.	What is the output of the following code? CLC MOV BH,179		
61.	RCL BH, 1 (a) CF=0, OF= 1, BH= 01100101 (c) CF=1, OF =0, BH= 01001101 What is the output of the following code? MOV SI,10010011 10101101B CLC		CF=1, OF=1, BH=01100110 CF=0, OF=0, BH=00101100
	SHR SI, 1		
	(a) 37805, CF=1, OF=1	(b)	18902, CF=1, OF=1
	(c) 19820, CF=1, OF=1	(d)	53708, CF=1, OF=1
62.	What is the output of the following code?		
	MOV BX,23763		
	MOV CL,8		
	ROL BX, CL		
	(a) 0101110011010011, CF=0	(b)	1101001101011100, CF=0
	(c) 0110100010011101, CF=1	(c)	1011100110001100, CF=1
63.	What is the output of the following code?		
	PUSHAL		
	(a) Decrement SP by 2 & push a word to s		
	(b) Increment SP by 2 & push a word to st(c) Decrement SP by 2 & push a AL to sta		
	(d) Illegal	CIC	
64.	What is the output of the following code?		
	MOV AX, 37D7H,		
	MOV BH, 151 DIV BH		
	(a) AL = 65H, AH= 94 decimal	(b)	AL= 5EH, AH= 101 decimal
	(c) AH= E5H, AL= 5EH	. ,	AL= 56H, AH= 5EH
65.	•	ng ii	nstructions is executed before an arithmetic
	Operation	/l= \	AAD
	(a) AAM (c) DAS	. ,	AAD DAA
66.	The negative numbers in the binary system	. ,	
	(a) Sign magnitude		I's complement
	(c) 2's complement	(d)	All of the above
67.	Pseudo instructions are	/l= \	La minal in atmosting a
	(a) Machine instructions(c) Micro instructions		Logical instructions instructions to assembler
68.	The errors that can be pointed out by the		
	,		

	(a) Syntax errors	(b)	Semantic errors	
	(c) Logical errors	(d)	None of the above	
69.	An assembly language program is translat	ed t	o machine code by	
	(a) an assembler	(c)	an interpreter	
	(b) a compiler	(d)	a linker	
70.	Which of the following, when used in the	dat	ta section of a MASM program, rese	rves 40
	bytes of RAM (memory)?			
	(a) BYTE 20 DUP (2)	٠,	WORD 40 DUP (1)	
	(b) BYTE 20 DUP (20)		WORD 20 DUP (2)	
71.	The instruction MOV CL, [BX][DI]+8 repres			••
	(a) based relative	(b)	based indexed	
	(c) indexed relative	(d)	register indirect	
72.	IF CX =1234H and BX=75FDH what is the	e va	lue stored in CX after the execution	of the
	following instruction:			
	TEST CX, BX			
	(a) 1234H	(b)	77FDH	
	(c) 75FDH	(d)	1032H	
73.	What does the INT _n instruction push onto	the	stack that the CALL instruction does	not?
	(a) Segment Address	(b)	Flags	
	(c) Offset Address		None of above	
74.	The 2's compliment of a binary no. is obta	ined	by adding to its 1's complimer	nt.
	(a) 0	(b)		
	(c) 10	(d)	12	
75.	The symbols used in an assembly language	e ar	e	
	(a) Codes		Mnemonics	
	(c) Assembler	(d)	None of the above	
76.	ASCII stands for	` ,		
	(a) American standard code for information	on ir	nterchange	
	(b) All-purpose scientific code for informa		<u> </u>	
	(c) American security code for information		_	
	(d) American Scientific code for information		•	
77	Which is not an operand?	J	ner en ange	
	(a) Variable	(h)	Register	
	(c) Memory location		Assembler	
	(c) Memory recution	(4)	7.65embler	
	Ans	we	<u>rs</u>	1
	1. (b) 2. (c) 3. (a) 4. (d) 5.	(d)	6. (d) 7. (c) 8. (d) 9. (d)	10. (b)
	11. (a) 12. (d) 13. (a) 14. (a) 15	5. (d)	16. (b) 17. (b) 18. (a) 19. (d)	20. (b)
	21. (c) 22. (b) 23. (b) 24. (a) 25	5. (d)	26. (d) 27. (b) 28. (c) 29. (a)	30. (a)

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31. (d)	32. (a)	33. (a)	34. (b)	35. (c)	36. (d)	37. (b)	38. (a)	39. (b)	40. (d)
41. (c)	42. (a)	43. (c)	44. (d)	45. (d)	46. (a)	47. (c)	48. (c)	49. (b)	50. (b)
51. (a)	52. (a)	53. (b)	54. (b)	55. (b)	56. (c)	57. (a)	58. (b)	59. (a)	60. (b)
61. (b)	62. (b)	63. (d)	64. (b)	65. (b)	66. (c)	67. (a)	68. (a)	69. (a)	70. (d)
71. (b)	72. (a)	73. (b)	74. (b)	75. (b)	76. (a)	77. (d)			