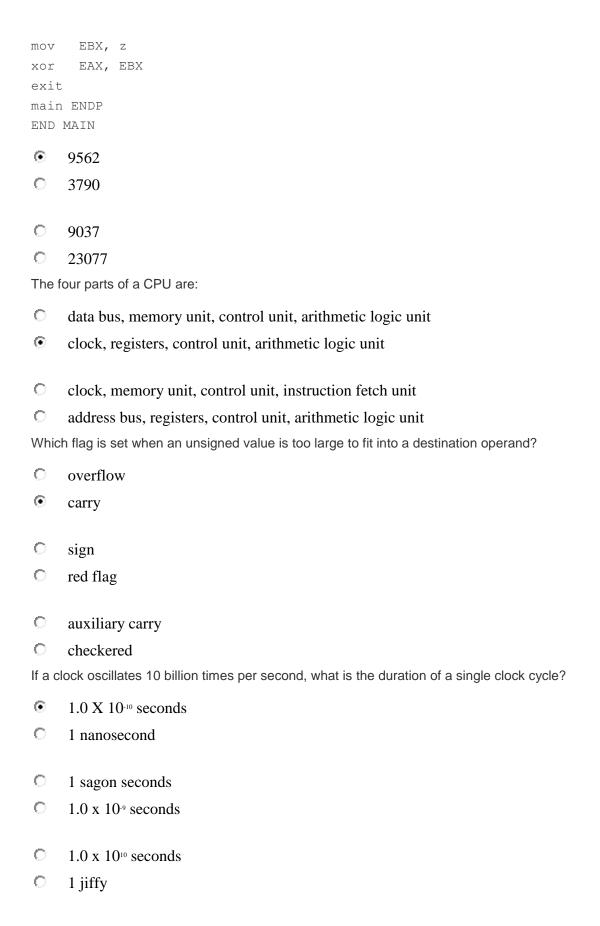
What	is the largest unsigned integer that may be stored in 24 bits?
0	65,536
0	1,048,576
•	16,777,215
0	32,767
A sig	ned integer stores the sign in the least significant bit (LSB).
0	True
•	False
The e	expression is only true when X and Y are both true.
0	True
•	False
The t	wo's complement of an integer is formed by doing which of the following?
0	changing the highest bit to a 1
•	reversing (inverting) the bits and adding 1
0	adding 2 and reversing the bits
0	adding 1 and reversing the bits
A do	ubleword (on x86 systems) is 32 bits.
•	True
0	False
The t	hree most basic operators in Boolean algebra are AND, OR, and NOT.
•	True
0	False
If an	integer's sign bit is 1, the integer is positive.
0	True
•	False
0 is p	positive 1 is negative
How	many bits are used by Unicode characters in MS-Windows?
0	24
•	16

0	7	
0	8	
Which of the following binary values is equivalent to hexadecimal 4A2B?		
0	0100 1010 1010 1011	
0	0100 1010 0010 1101	
•	0100 1010 0010 1011	
0	0110 1011 0010 1001	
Which of the following correctly describes the Java Virtual Machine?		
0	provides virtual memory management for the operating system	
•	executes Java Bytecodes	
0	translates Java into Java Bytecodes	
Ö	makes Java run faster on x86 computers	
	adword is 4 bytes.	
0	True	
⊙ ⊙	False	
Is the expression equivalent to $(X \lor Y) \land (X \lor Z)$ for all possible inputs of X, Y, and Z?		
•	True	
0	False	
The expression $\neg (X \land Y)$ is true when X and Y are both false.		
•	True	
0	False	
A program that combines object files into an executable program is called a		
•	linker	
0	compiler	
0	assember	
O	loader	

Which of the following binary values is equivalent to hexadecimal 7CBE?

•	0111	1100 1011 1110
0	0111	1100 1100 1110
	OIII .	
0	0111	1011 1011 1100
0	0111	1101 1011 1110
		al bus uses binary signals to synchronize actions of all devices attached to the system bus?
	I/O bu	
0		
0	cache	bus
•	contro	l buo
0	addres	ss bus
0	city bu	
	·	
0	data b	us
Pg 31	L	
How	much m	emory can be addressed in Protected mode?
0	640K	
0	1MB	
•	4GB	
0	16MB	
Supp	ose tha	t you are given the following program. What decimal value does the AX register hold
		Procedure is called??
.dat		
X	DWORD	153461
_	BYTE	37 90
Z	BYTE	
.cod	le	
main	PROC	
mov	AH,	
mov	AL,	
call		Procedure
inc	EAX	



-	wanted to find out whether an integer contained an even number of 1 bits, which status flag would seful?
0	carry
0	overflow
0	sign
•	parity
Whic	h two 32-bit registers are known as extended index registers?
$\odot$	ESI, EDI
0	EBP, ESP
0	SI, DI
0	EAX, EBX
	is the name of the time delay in a CPU caused by differences between the speed of the CPU, the m bus, and memory circuits?
0	wait cycle
0	bicycle
0	dead cycle
0	memory write cycle
•	wait state
0	spin cycle
Whic	h register is known as a loop counter?
$\odot$	ECX
0	LOX
0	EBX
0	EDX
0	EAX
Whic	h of the following are valid data definition statements that create an array of unsigned bytes

containing decimal 10, 20, and 30, named myArray?

•	myArray BYTE 10, 20, 30		
0	BYTE myArray[3]: 10, 20,30		
0	BYTE myArray 10, 20, 30		
0	myArray BYTE DUP (3) 10,20,30		
Select a data definition statement that creates an array of 500 signed doublewords named myList and initializes each array element to the value -1.			
0	SDWORD myList 500 DUP (-1)		
0	myList 500 SDWORD (-1)		
•	myList SDWORD 500 DUP (-1)		
0	myList 500 SDWORD DUP (-1)		
The byte-ordering scheme used by computers to store large integers in memory with the high-order byte at the lowest address is called:			
•	big endian		
0	byte-minor		
0	nibble		
0	tasty		
0	byte-major		
0	little endian		
In the following data definition, assume that List2 begins at offset 2000h. What is the offset of the third value (5)?			
List	2 WORD 3,4,5,6,7		
O	2002h		
0	2008h		
0	20006h		
0	20008h		
0	2000h		
$\odot$	2004h		

The following is a valid identifier: AB62-\$

$\circ$	True		
$\odot$	False		
Whic	h utility program reads an assembly language source file and produces an object file?		
0	compiler		
0	loader		
0	editor		
0	detangler		
	details to		
•	assembler		
0	linker		
	h of the following are true about assembly language instructions and directives? (select all that		
apply			
<b>V</b>	an instruction is executed at runtime		
	a directive is executed at runtime		
	an instruction is executed at assembly time		
<b>V</b>	a directive is executed at assembly time		
Whick defini	h letter choice shows the memory byte order, from low to high address, of the following data tion?		
BigV	al DWORD 12345678h		
0	56h, 78h,12h,34h		
0	34h,12h,78h,56h		
•	78h,56h,34h,12h		
0	12h,34h,56h,78h		
	ands may be any of the following: (select all that apply)		
<b>V</b>	register name		
<b>V</b>	variable name (memory)		
-	variable familie (memory)		
<b>V</b>	constant or constant expression		
	reserved word		
Whicl	Which directive identifies the part of a program containing instructions?		

0	.net
0	.prog
0	.product
•	.code
0	.data
0	.stack
The	integer range of standard ASCII codes is:
0	0 to 65,535
0	0 to 270
•	0 to 127
0	-128 to +127
Ар	rogram is considered portable if it
0	none of the above
•	can be executed on multiple platforms.
0	can be quickly copied from conventional RAM into high-speed RAM.
0	can be rewritten in a different programming language without losing its meaning.
The	$X \wedge Y$ expression is true only when X and Y are both true.
•	True
0	False
Dev	vice drivers nearly always contain some code written in
•	assembly language
0	an application-oriented language
0	Java
0	machine language

True False List the three primary steps of the instruction execution cycle, in sequential order. decode, fetch, execute fetch, decode, execute fetch, decode, memory write fetch, memory read, execute The three types of buses connected to the CPU are: data, system, address data, address, control fetch-decode, control, execution address, control, memory The basic parts of an instruction, in order from left to right, are: mnemonic, operand(s), comment label, mnemonic, comment label, mnemonic, operand(s), comment comment, label, mnemonic, operand(s) The following is a valid data definition statement: str1 \ BYTE "This string is quite long!",0 True False Given the following array definition, which letter choice contains a valid constant declaration named

ArrayCount that automatically calculates the number of elements in the array?

newArray DWORD 10,20,30,40,50

Three hexadecimal digits can be used to represent 12 binary bits.

- C ArrayCount = (newArray \$) 4
- ArrayCount = newArray \$
- ArrayCount DWORD \$ newArray
- ArrayCount = (\$ newArray) / 4

Which of the following defines a text macro named MESSAGE that contains this string data?

```
"I'm good at this!",0
```

- TEXTEQU MESSAGE <"I'm good at this!",0>
- <"I'm good at this!",0> TEXTEQU MESSAGE
- TEXTEQU <"I'm good at this!",0> MESSAGE
- MESSAGE TEXTEQU <"I'm good at this!",0>