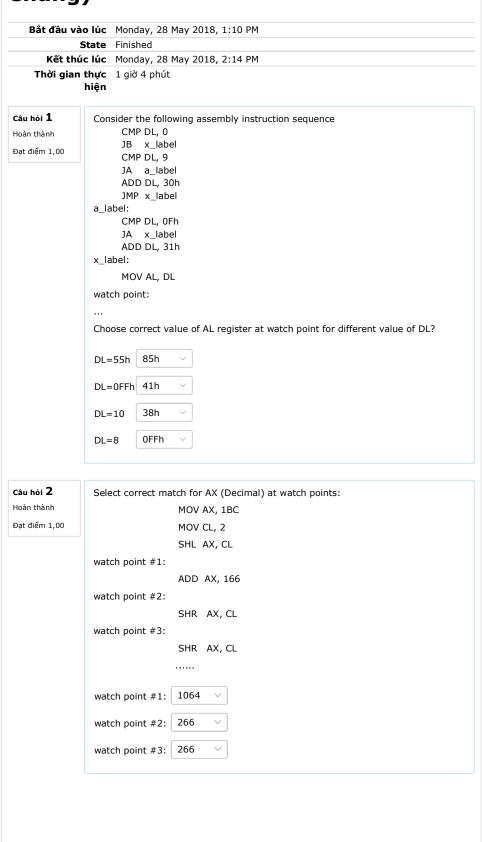


Bai thi ktmt k16 - KTMT

Computer Architecture and Assembly language (Trường Đại học Sư phạm Kỹ thuật Thành phố Hồ Chí Minh)

THI Kiến trúc máy tính và hợp ngữ (Thi Chung)



Đạt điểm 0,50	Select one:
	o intrasegment mode
	intersegment mode
	intrasegment indirect mode
	intrasegment direct mode
Câu hỏi 4 Hoàn thành	Structural components of computer include:
Đạt điểm 1,00	Select one or more:
	☐ Interrupt
	Central processing unit
	☑ <u>I/O</u>
	□ DMA
Câu hỏi 5	Which could be compatence for the destination
	Which could be correct ones for the destination operand in a data movement instruction?
Hoàn thành	
	Select one or more:
	Select one or more: ☐ immediate data
	☐ immediate data
	☐ immediate data ☐ all choices are correct
	 immediate data all choices are correct register
Đạt điểm 0,50 Câu hỏi 6	 immediate data all choices are correct register
Đạt điểm 0,50 Câu hỏi ố Hoàn thành	☐ immediate data ☐ all choices are correct ☐ register ☐ memory location the instruction, JMP C008:2000h is an example of
Đạt điểm 0,50 Câu hỏi ố Hoàn thành	☐ immediate data ☐ all choices are correct ☐ register ☐ memory location the instruction, JMP C008:2000h is an example of Select one or more:
Đạt điểm 0,50 Câu hỏi ố Hoàn thành	□ immediate data □ all choices are correct □ register □ memory location the instruction, JMP C008:2000h is an example of Select one or more: □ intrasegment mode
Đạt điểm 0,50 Câu hỏi ố Hoàn thành	□ immediate data □ all choices are correct □ register □ memory location the instruction, JMP C008:2000h is an example of Select one or more: □ intrasegment mode □ near jump
Đạt điểm 0,50 Câu hỏi ố Hoàn thành	□ immediate data □ all choices are correct □ register □ memory location the instruction, JMP C008:2000h is an example of Select one or more: □ intrasegment mode □ near jump □ intersegment jump
Đạt điểm 0,50 Câu hỏi ố Hoàn thành	□ immediate data □ all choices are correct □ register □ memory location the instruction, JMP C008:2000h is an example of Select one or more: □ intrasegment mode □ near jump
Câu hỏi 6 Hoàn thành Đạt điểm 0,50	□ immediate data □ all choices are correct □ register □ memory location the instruction, JMP C008:2000h is an example of Select one or more: □ intrasegment mode □ near jump □ intersegment jump
Câu hỏi 6 Hoàn thành Đạt điểm 0,50	□ immediate data □ all choices are correct □ register □ memory location the instruction, JMP C008:2000h is an example of Select one or more: □ intrasegment mode □ near jump □ intersegment jump □ far jump
Câu hỏi 6 Hoàn thành Đạt điểm 0,50 Câu hỏi 7 Hoàn thành	□ immediate data □ all choices are correct □ register □ memory location the instruction, JMP C008:2000h is an example of Select one or more: □ intrasegment mode □ near jump □ intersegment jump □ far jump □ far jump
Câu hỏi 6 Hoàn thành Đạt điểm 0,50 Câu hỏi 7 Hoàn thành	□ immediate data □ all choices are correct □ register □ memory location the instruction, JMP C008:2000h is an example of Select one or more: □ intrasegment mode □ near jump □ intersegment jump □ far jump Given a row of memory image in debug 0AE8:0120 13 96 D0 E0 00 40 08 42 - 99 80 3E 20 99 00 75 24
Câu hỏi 6 Hoàn thành Đạt điểm 0,50 Câu hỏi 7 Hoàn thành	□ immediate data □ all choices are correct □ register □ memory location the instruction, JMP C008:2000h is an example of Select one or more: □ intrasegment mode □ near jump □ intersegment jump □ far jump Given a row of memory image in debug 0AE8:0120 13 96 D0 E0 00 40 08 42 - 99 80 3E 20 99 00 75 24 SI = 120
Câu hỏi 6 Hoàn thành Đạt điểm 0,50 Câu hỏi 7 Hoàn thành	□ immediate data □ all choices are correct □ register □ memory location the instruction, JMP C008:2000h is an example of Select one or more: □ intrasegment mode □ near jump □ intersegment jump □ far jump Given a row of memory image in debug 0AE8:0120 13 96 D0 E0 00 40 08 42 - 99 80 3E 20 99 00 75 24 SI = 120 The following instruction is executed:
Câu hỏi 6 Hoàn thành Đạt điểm 0,50 Câu hỏi 7 Hoàn thành	<pre> immediate data all choices are correct register memory location the instruction, JMP C008:2000h is an example of Select one or more: intrasegment mode near jump intersegment jump far jump Given a row of memory image in debug 0AE8:0120 13 96 D0 E0 00 40 08 42 - 99 80 3E 20 99 00 75 24 SI = 120 The following instruction is executed: MOV EAX, [SI+4] </pre>
Đạt điểm 0,50	 immediate data all choices are correct register memory location the instruction, JMP C008:2000h is an example of Select one or more: intrasegment mode near jump intersegment jump far jump Given a row of memory image in debug 0AE8:0120 13 96 D0 E0 00 40 08 42 - 99 80 3E 20 99 00 75 24 SI = 120 The following instruction is executed: MOV EAX, [SI+4] Assume the value in EAX is a 32-bit floating-point binary, what is the value of

Cau hoi 8 Into an than bet didém 1,00 Given a code snippet: int n = 10; do { n; } while (n > 0); Which ones are the equivalent logic sequence of instructions in Assembly Select one or more: mov cx, 10 a_label: dec cx cmp cx, 0 jz a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz a_label jz a_label jz a_label dec cx cmp cx, 0 jz a_label jz a_label dec cx cmp cx, 0 jz a_label dec cx cmp cx, 0 jz a_label jz a_label: dec cx cmp cx, 0 jz a_label jz a_label jz a_label: dec cx cmp cx, 0 jz a_label jz a_label jz a_label: dec cx cmp cx, 0 jz a_label: dec cx cmp cx, 10 jz a_label jz a_label jz a_label jz a	Câu hỏi 8	
Dat disfm 1,00 The following sequence of instructions are executed. What is the correct value of AX, CX, DX at watch point? The following sequence of instructions are executed. What is the correct value of AX, CX, DX at watch point? CX watch point: CX w	cuu iioi o	Given a code snippet:
n;) while (n > 0); Which ones are the equivalent logic sequence of instructions in Assembly Select one or more:		int $n = 10$;
y while (n > 0); Which ones are the equivalent logic sequence of instructions in Assembly Select one or more: □ mov cx, 10 a_label: loop a_label □ mov cx, 10 a_label: dec cx cmp cx, 0 jz a_label □ mov cx, 10 a_label: dec cx loop a_label □ mov cx, 10 a_label: dec cx cmp cx, 0 jz a_label □ mov cx, 10 a_label: dec cx cmp cx, 0 jz e_label jmp a_label e_label: Cdu hói 9 Hoàn thành Det diểm 1,00 The following sequence of instructions are executed. What is the correct value of AX, CX, DX at watch point? MOV AX,30 MOV CX,FFFF MUL CX watch point: CX FFFF □ DX O02F Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).	Đạt điểm 1,00	do {
Which ones are the equivalent logic sequence of instructions in Assembly Select one or more:		n;
Select one or more: mov cx, 10 a_label: loop a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz a_label mov cx, 10 a_label: dec cx loop a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz e_label jmp a_label e_label: MOV AX, 30 MOV CX,FFFF MUL CX watch point: CX watch point: CX FFFF MUL CX watch point: CX is fFDD DX O02F Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		} while (n > 0);
		Which ones are the equivalent logic sequence of instructions in Assembly
		Select one or more:
a_label: loop a_label mov cx, 10 a_label: dec cx cmp cx,0 jz a_label mov cx, 10 a_label: dec cx loop a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz e_label mov cx, 10 a_label: dec cx cmp cx, 0 jz e_label jmp a_label e_label: MOV AX, 30 MOV CX,FFFF MUL CX watch point: CX FFFF MUL CX watch point: CX FFFF MUL CX watch point: CX FFFF MUL CX Watch point: CX FFF MUL CX Watch point: CX FFF MUL CX Watch point: CX FFF MUL		
loop a_label mov cx, 10		
□ mov cx, 10 a_label: dec cx cmp cx,0 jz a_label □ mov cx, 10 a_label: dec cx loop a_label ② mov cx, 10 a_label: dec cx cmp cx, 0 jz e_label jmp a_label e_label: The following sequence of instructions are executed. What is the correct value of AX, CX, DX at watch point? MOV AX,30 MOV CX,FFFF MUL CX watch point: CX watch point: CX FFFF AX FFD0 DX 002F Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		
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dec cx cmp cx,0 jz a_label mov cx, 10 a_label: dec cx loop a_label dec cx cmp cx, 0 jz e_label jmp a_label: dec cx cmp cx, 0 jz e_label jmp a_label e_label: MOV AX,30 MOV CX,FFFF MUL CX watch point: CX FFFF MUL CX watch point: CX FFF MUL CX watch point: CX FF		
cmp cx,0 jz a_label mov cx, 10 a_label: dec cx loop a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz e_label jmp a_label e_label: dec cx cmp cx, 0 jz e_label jmp a_label e_label: MOV AX,30 MOV CX,FFFF MUL CX watch point: CX FFFF MUL CX watch point: CX FFF MUL CX watch point: CX FF MUL CX watch point: CX FF MUL CX Watch point: CX FF MUL CX Watch point: CX F		
jz a_label mov cx, 10 a_label: dec cx loop a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz e_label jmp a_label e_label: le_label: MOV AX,30 MOV CX,FFFF MUL CX watch point: CX FFFF MUL CX watch point: CX FFFF AX FFD0 DX 002F DX 002F Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		
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dec cx loop a_label mov cx, 10 a_label: dec cx cmp cx, 0 jz e_label jmp a_label e_label: The following sequence of instructions are executed. What is the correct value of AX, CX, DX at watch point? MOV AX,30 MOV CX,FFFF MUL CX watch point: CX FFFF AX FFD0 B AX FFD0 The following sequence of instructions are executed. What is the correct value of AX, CX, DX at watch point? MOV AX,30 MOV CX,FFFF MUL CX Watch point: CX FFFF B AX FFD0 B Câu hỏi 10 Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		a_label:
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jz e_label jmp a_label e_label: Câu hỏi 9 Hoàn thành Đạt diểm 1,00 The following sequence of instructions are executed. What is the correct value of AX, CX, DX at watch point? MOV AX,30 MOV CX,FFFF MUL CX watch point: CX FFFFF AX FFD0 DX 002F Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		
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Value of AX, CX, DX at watch point? MOV AX,30 MOV CX,FFFF MUL CX watch point: CX FFFF AX FFD0 DX 002F DX Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		
MOV AX,30 MOV CX,FFFF MUL CX watch point: CX FFFF AX FFD0 DX 002F Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		
MOV CX,FFFF MUL CX watch point: CX FFFF AX FFD0 DX 002F Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		
MUL CX watch point: CX FFFF AX FFD0 DX 002F Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).	Đạt điểm 1,00	·
watch point: CX FFFF =		
CX = FFFF \(\) = AX FFDO \(\) = DX 002F \(\) Câu hỏi 10 Không trả lời Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		
AX FFD0 V DX 002F V Câu hỏi 10 Không trả lời Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		watch point:
AX FFD0 V DX 002F V Câu hỏi 10 Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		CX FFFF V
Câu hỏi 10 Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		
Câu hỏi 10 Không trà lời Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		FFDU
Câu hỏi 10 Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB is the 1st bit).		=
Không trả lời is the 1st bit).		DX 002F V
Không trả lời is the 1st bit).		
Không trả lời is the 1st bit).	a10	
	Đạt điểm 0,50	,
Answer:	Dat diem 0,30	Answer:



Câu hỏi 11 Hoàn thành	After executing PUSH EAX instruction, the stack pointer Select one:
Đạt điểm 0,50	increment by 1
	decrements by 4
	O decrement by 1
	increment by 2
Câu hỏi 12	Given an assembly code copying the memory buffer Buff1 to Buff2:
Không trả lời	PUSH DS
Đạt điểm 1,00	POP ES LEA SI, Buff1
	LEA DI, Buff2
	MOV CX,20
	; Start of block cp_loop:
	MOV AL, Byte Ptr [SI]
	MOV Byte Ptr ES:[DI], AL
	INC SI INC DI
	LOOP cp_loop
	;End of block
	Choose equivalent string operations in place of block
	Select one or more:
	□ CLD
	cp_loop: MOVSB
	LOOP cp_loop
	□ STD
	cp_loop:
	MOVSB LOOP cp_loop
	□ CLD
	cp_loop:
	REP MOVSB LOOP cp_loop
	CLD REP MOVSB
Câu hỏi 13 Hoàn thành	the instruction that is used as prefix to an instruction to execute it repeatedly until the CX register becomes zero is
Đạt điểm 0,50	
Đạt diem 0,30	Select one:
	O CMPS
	O SCAS
	O CMPS
Câu hỏi 14	Write mask byte (in hex) to clear all the lower 7 bits of a byte value with AND
Hoàn thành	instruction.
Đạt điểm 0,50	Answer: AND AL, 01111111B

at điểm 1,00	
	Answer:
âu hỏi 16	Given a row of memory image in debug
(hông trả lời	072C:FFF0 00 00 00 01 00 00 2C 07 - 07 01 2C 07 17 72 00 00
Đạt điểm 1,50	SS=072C, SP=FFF8, DS = 072C
	Assume the stack now stores two (2) 16-bit parameters and one (1) 16-bit return address in following order: stack top (return address) >> parameter #1 >> parameter #2.
	The following sequence of instructions are executed. What is the correct values at watch points?
	MOV BP, SP
	watch point #1 (BP):
	MOV AX, [BP+2]
	watch point #2 (AX):
	ADD AX, [BP+4]
	watch point #3 (AX):
	MOV DI, 120
	MOV [DI], AX
	watch point Chọn ∨
	watch point #2:
	watch point #3:
Câu hỏi 17 Hoàn thành	The instruction that subtracts 1 from the contents of the specified register/memory location is
Đạt điểm 0,50	
Đặt diệm 0,30	Select one:
	DEC CUB
	○ SUB
	○ SBB
	○ INC

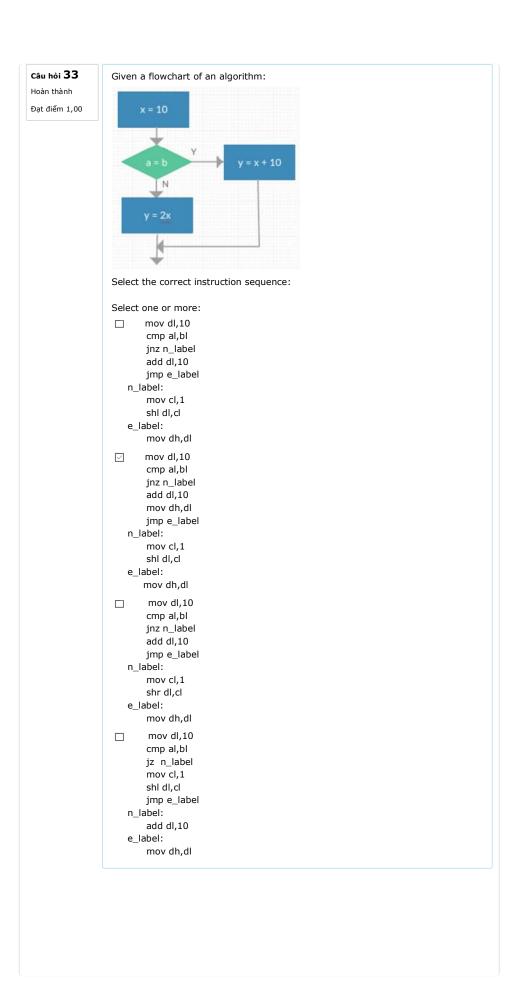
Câu hỏi 18 Memory dump at 1D20:0200 shown as below: Không trả lời 1D20:0200 00 20 10 5D 55 47 00 90 - 00 10 20 30 40 50 60 70 Đạt điểm 1,00 Given value of registers: DS = 1D20, ES = 1D20, DI = 20AThe following sequence of instructions are executed: MOV SI,208h MOV AX,0040h MOV CX,000Ah CLD REPNZ SCASB watch point: What is the correct value of AX, SI, DI registers at watch point? DI Chọn... ∨ AX Chọn... ∨ SI Chọn... \vee Câu hỏi 19 What is the meaning of Amdahl's law in processor performance evaluation? Hoàn thành Select one: Đạt điểm 1,00 \bigcirc the cost reduce when moving from single-core to multicore processor the maximum speedup of a multicore processor \bigcirc the potential speedup of a program using multiple processor compared to a single processor $\ensuremath{\bigcirc}$ the speedup of a multicore processor when increasing system bus speed Câu hỏi 20 Which are the correct actions for LODSW string operation if DF is reset (=0) Hoàn thành Select one or more: Đạt điểm 0,50 ☐ Load 16-bit value at memory location pointed by ES:[DI] into AX ☑ Load 16-bit value at memory location pointed by DS:[SI] into AX Câu hỏi 21 When many devices of different transmission speed connect to the same bus, the overall system performance suffers. How did the design engineers resolved Không trả lời this: Đạt điểm 1,00 Select one: O PCI Express bus Multiple-Bus hierarchies O PCI bus O Split system bus into local bus and memory bus

Câu hỏi 22	the instruction, CMP to compare source and destination operands by
Hoàn thành	
Đạt điểm 0,50	Select one:
	o adding
	○ comparing
	○ dividing
	subtracting
Câu hỏi 23	To balance the super speed of CPU with the slow response of memory, which
Hoàn thành	of the following measures have been made by engineers in system design?
Đạt điểm 1,00	Select one or more:
	☐ Make use of both on-chip and off-chip cache memory
	☑ Using higher-speed bus and us hierarchy
	☐ To move data directly by DMA
Câu hỏi 24	The following sequence of instructions are executed. What is the correct
Hoàn thành	value of AX, DX at watch point?
Đạt điểm 1,00	MOV DL,FF
	MOV AL,42
	IMUL DL
	watch point:
	AV FEDE
	AX = FFBE Y
	DX 0000 V
	=
Câu hỏi 25	
Hoàn thành	In the RCR instruction, the contents of the destination operand undergoes function as
Đạt điểm 0,50	Select one:
Dat diem 0,50	o carry flag is pushed into LSB then MSB is pushed into carry flag
	O overflow flag is pushed into MSB then LSB is pushed into carry flag
	carry flag is pushed into MSB then LSB is pushed into carry flag
	 auxiliary flag is pushed into LSB then MSB is pushed into carry flag
Câu hỏi 26	Which could be correct ones for the source operand in an instruction?
Hoàn thành	Select one or more:
Đạt điểm 0,50	immediate data
	indirect data
	✓ register
Câu hỏi 27	Convert the 32-bit floating point number A3358000 (in hex) to decimal.
Hoàn thành	Note:
Đạt điểm 1,00	Result with exponent should be written like (e.g): 1.2345678x10^-13
,	or 1.2345678x10^13 (no space between digits/characters)
	or 1.2545070x10 15 (no space between digital characters)
	of 1.2545070x10 15 (no space between digits) characters)



Câu hỏi 28 Hoàn thành Đạt điểm 1,00	Select correct match for register values at watch points: MOV AX, 152D ADD AX, 003F watch point #1:
	ADD AH, 10 watch point #2:
	watch point #2: watch point $AH = 25 \lor$ watch point #1: $AL = 6C \lor$
Câu hỏi 29 Hoàn thành Đạt điểm 0,50	Which are the correct actions for SCASW string operation if DF is set (=1) Select one or more: ☑ decrease DI by 2 ☑ compare the value in AX register with 16-bit value at the memory location pointed by ES:[DI] and set/clear flag bits accordingly ☐ increase DI by 2 ☐ compare the value in AX register with 16-bit value at the memory location pointed by DS:[SI] and set/clear flag bits accordingly
Câu hỏi 30 Hoàn thành Đạt điểm 1,00	What is the correct value of SI, AL (in hex) at watch point: 01:
Câu hỏi 31 Hoàn thành Đạt điểm 1,00	Select the correct sequence of instructions to compute -1024/128 (all values are in hex). Step 1: CWD Step 2: MOV CX,80 Step 3: MOV CL,80 Step 4: IDIV CL

MOV BL, SC MOV AL, 7E ADD AL, BL watch point #1: AL OA Carry flag The set of t	loàn thành	MOV BL. CC
ADD AL, BL watch point #1: AL OA Carry set		
watch point #1: AL	at diem 1,00	
AL 0A × Carry set ×		
AL 0A Y Carry set Y		watch point #1:
AL 0A Y Carry set Y		
Carry set		
Carry set v		AL OA ~
flag set v		Carny
		flag
		nag



Câu hỏi 34	After executing the POP EAX instruction, the stack pointer
Hoàn thành	Select one:
Đạt điểm 0,50	odecrements by 4
	odecrements by 2
	increments by 4
	increment by 1
25	
Câu hỏi 35	Sign-extend number BF (8-bit binary) to 16-bit. Write result in hex
Hoàn thành	Answer: 191
Đạt điểm 0,50	, misrei. 151
Câu hỏi 36	Which of the following instructions are not valid?
Hoàn thành	
Đạt điểm 0,50	Select one or more:
	☑ MOV DS, B800h
	☐ MOV AX, [BP+2]
	☑ MOV SP, SS:[SI+2]
	☐ MOV AX, SI
Câu hỏi 37	The following sequence of instructions are executed. What is the correct
Hoàn thành	value of flag bits at watch point?
Đạt điểm 1,00	MOV AL, 0F
	ADD AL, F1
	watch point:
	Zero flag (OF)
	reset reset
	Carry flag set
	(CF) =
Câu hỏi 38	Major structural components of the CPU include:
Hoàn thành	Select one or more:
Đạt điểm 1,00	Registers
	✓ Arithmetic and Logic Unit
	☐ Instruction Pointer (PC)
	☑ Interconnections
	✓ Control Unit
	☐ Instruction Register
Câu hỏi 39	Consider a magnetic disk drive with 8 surfaces, 512 tracks per surface, and 64 sectors per track. Sector size is 1 kB. What is the disk capacity
Hoàn thành	sectors per track. Sector size is 1 kb. what is the disk capacity
Đạt điểm 1,00	Answer: 512 KB V



