

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)

Ja	,
Bắt đầu và	o lúc Monday, 28 May 2018, 1:10 PM
	State Finished
Kết thú	c lúc Monday, 28 May 2018, 2:14 PM
	thực 1 giờ 4 phút hiện
Câu hỏi 1 Hoàn thành Đạt điểm 1,00	Consider the following assembly instruction sequence CMP DL, 0 JB x_label CMP DL, 9 JA a_label ADD DL, 30h JMP x_label a_label: CMP DL, 0Fh JA x_label ADD DL, 31h x_label: MOV AL, DL watch point: Choose correct value of AL register at watch point for different value of DL? DL=55h 85h \times DL=0FFh 41h \times DL=10 38h \times DL=8 0FFh \times
Câu hỏi 2 Hoàn thành	Select correct match for AX (Decimal) at watch points: MOV AX, 1BC
Đạt điểm 1,00	
Dặt diem 1,00	MOV CL, 2
	SHL AX, CL watch point #1: ADD AX, 166 watch point #2: SHR AX, CL watch point #3: SHR AX, CL
	watch point #1: 1064 V
	watch point #2: 266 V
	watch point #3: 266 V



than the current one, then the jump instruction is called Select one:	Câu hỏi 3	if the location to which the control is to be transferred lies in a segment other
Select one: intrasegment mode intrasegment indirect mode intrasegment direct mode intrasegment direct mode intrasegment direct mode Structural components of computer include: Select one or more: System interconnection Interrupt Central processing unit I/Q Memory DMA Which could be correct ones for the destination operand in a data movement instruction? Select one or more: Immediate data Idl choices are correct register memory location Cau hoi 6 Hoàn thành Det diểm 0,50 the instruction, JMP C008:2000h is an example of Select one or more: Intrasegment mode near jump Intersegment jump Acau hoi 7 Hoàn thành Det diểm 1,00 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 EAX in decimal?	Hoàn thành	-
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Cau hói 4 Hoàn thành Dạt diếm 0,50 Câu hói 5 Hoàn thành Dạt diếm 0,50 Câu hói 5 Hoàn thành Dạt diếm 0,50 Câu hói 5 Hoàn thành Dạt diếm 0,50 Câu hói 6 Hoàn thành Dạt diếm 0,50 Câu hói 7 Hoàn thành Dạt diếm 1,00 Câu hói 7 Hoàn thành Dạt diễm 1,00 Câu hói 6 Hoàn thành Dạt diễm 1,00 Câu hói 7 Hoàn thành Dạt diễm		
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Cau hoi 4 Hoàn thành Dạt diếm 1,00 Câu hoi 5 Hoàn thành Dạt diếm 1,00 Câu hoi 5 Hoàn thành Dạt diếm 0,50 Câu hoi 6 Hoàn thành Dạt diếm 0,50 Câu hoi 7 Hoàn thành Dạt diếm 0,50 Câu hoi 7 Hoàn thành Dạt diếm 1,00 Câu hoi 7 Hoàn thành Dạt diễm 1,00 Câu hoi 6 Hoàn thành Dạt diễm		
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Memory DMA		Central processing unit
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Câu hỏi 8	Given a code snippet:
Hoàn thành	int n = 10;
Đạt điểm 1,00	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:
	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
	dec cx
	cmp cx, 0
	jz e_label
	jmp a_label e_label:
Câu hỏi 9 Hoàn thành	The following sequence of instructions are executed. What is the correct value of AX, CX, DX at watch point?
Đạt điểm 1,00	MOV AX,30
	MOV CX,FFFF
	MUL CX
	watch point:
	CV.
	CX = FFFF \(\times \)
	AV
	FFD0 V
	DX 002F \(\times \)
	DA COSE.
Câu hỏi 10	Write mask byte (in hex) to set higher 4 bits in a byte value with OR instruction (LSB
Không trả lời	is the 1st bit).
Đạt điểm 0,50	
Specialisti 0,50	Answer:



Câu hỏi 11 Hoàn thành	After executing PUSH EAX instruction, the stack pointer
Đạt điểm 0,50	Select one:
Đạt dieili 0,50	increment by 1
	decrements by 4
	O decrement by 1
	increment by 2
	O 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	the instruction that is used as prefix to an instruction to execute it repeatedly
Hoàn thành	until the CX register becomes zero is
Đạt điểm 0,50	Select one:
	○ CMPS
	○ 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	Angwari AND AL 01111111P
	Answer: AND AL, 01111111B

ạt điểm 1,00	
	Answer:
àu hỏi 16	Given a row of memory image in debug
hông trả lời	072C:FFF0 00 00 01 00 00 2C 07 - 07 01 2C 07 17 72 00 00
Đạt điểm 1,50	
Jac diem 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
	MOV [DI], AX
	watch point #1:
	watch point #2:
	watch point Chan
	#3:
Câu hỏi 17	The instruction that subtracts 1 from the contents of the specified
Hoàn thành	register/memory location is
Đạt điểm 0,50	Select one:
	DEC
	○ SUB
	○ SBB ○ INC



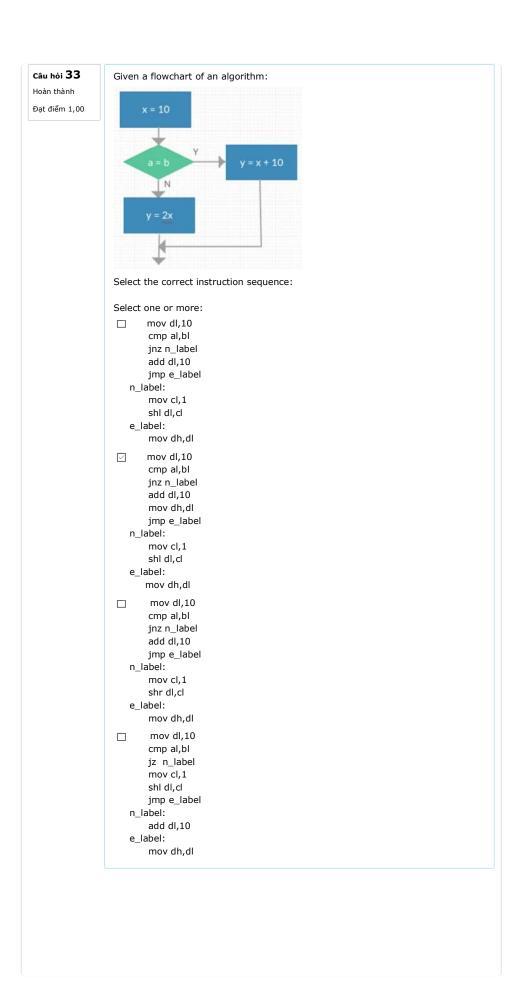
Câu hỏi 18 Memory dump at 1D20:0200 shown as below: Không trả lời 1D20:0200 00 20 10 5D 55 47 00 90 - 00 10 20 30 40 50 60 70 Đạt điểm 1,00 Given value of registers: DS = 1D20, ES = 1D20, DI = 20AThe following sequence of instructions are executed: MOV SI,208h MOV AX,0040h MOV CX,000Ah CLD REPNZ SCASB 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
	o comparing
) dividing
	subtracting
	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:
	$\ \ \square$ Make use of both on-chip and off-chip cache memory
	☑ Make wider data bus path
	☑ Using higher-speed bus and us hierarchy
	☑ To move data directly by DMA
Câu hỏi 24 Hoàn thành	The following sequence of instructions are executed. What is the correct value of AX, DX at watch point?
Đạt điểm 1,00	MOV DL,FF
	MOV AL,42
	IMUL DL
	watch point:
	AX = FFBE V
	DX 0000 ∨
Câu hỏi 25	In the RCR instruction, the contents of the destination operand undergoes function as
Hoàn thành	Select one:
Đạt điểm 0,50	o carry flag is pushed into LSB then MSB is pushed into carry flag
	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	Colort and an arrange
Đạt điểm 0,50	Select one or more: immediate data
	✓ memory location
	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)
	Answer: -9.83913471531×10^-18
	2



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

oàn thành ạt điểm 1,00		
	MOV BL, 8C	
at diem 1,00	MOV AL, 7E	
	ADD AL, BL	
	watch point #1:	
	AL OA ~	
	Carry set V	
	flag	



Câu hỏi 34 Hoàn thành Đạt điểm 0,50	After executing the POP EAX instruction, the stack pointer Select one:
	 decrements by 4 decrements by 2 increments by 4 increment by 1
Câu hỏi 35	Sign-extend number BF (8-bit binary) to 16-bit. Write result in hex
Hoàn thành Đạt điểm 0,50	Answer: 191
Câu hỏi 36 Hoàn thành	Which of the following instructions are not valid?
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:
	Zoro flos (OE)
	Zero flag (OF) reset
	Carry flag (CF) =
Câu hỏi 38	Major structural components of the CPU include:
Hoàn thành	
Đạt điểm 1,00	Select one or more: Registers
	✓ Arithmetic and Logic Unit
	☐ Instruction Pointer (PC)
	☑ Interconnections
	☑ Control Unit
	☐ Instruction Register
Câu hỏi 39 Hoàn thành	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
Đạt điểm 1,00	Answer: 512 KB



