



CS401 Midterm Solved McQs Papers By Waqar Sidhu (File 1)

Question No 1

In instruction ADC the operands can be

Select Correct Option

- ✓ Two registers only
- ✓ Two register and one memory location
- ✓ **CF and two other operands**.....(For More Visit VUStudents.pk)
- ✓ ZF and two other operands

Question NO 2

The attribute byte has

Select Correct Option

- ✓ 32 possible background colors
- ✓ 16 possible background colors
- ✓ **8 possible background colors**.....(For More Visit VUStudents.pk)
- ✓ 4 possible background colors

Question NO 3

Memory cell width refers to _____.

Select Correct Option

- ✓ **Number of bits in a cell**.....(For More Visit VUStudents.pk)
- ✓ The maximum value that can be stored in a cell including sign-bit
- ✓ The maximum value that can be stored in a cell excluding sign-bit
- ✓ Address of that cell

Question NO 4

Which of the following is true about Interrupt Flag

Select Correct Option

- ✓ **It tells whether processor can be interrupted from outside or not**
- ✓ It tells whether processor has interrupted or not
- ✓ It is cleared when an interrupt occurs from outside
- ✓ It is set when processor wants to generate an interrupt

Question NO 5

When the operand of DIV instruction is of 16 bits then implied dividend will be of

Select Correct Option

- ✓ **8 bits**
- ✓ 16 bits
- ✓ 32 bits
- ✓ 64 bits





Question NO 6

If AX=5, BX=5, CF and ZF are set, AF and DX contains zero then after the execution of instruction “ADC AX, BX” , AX will contain the value:

Select Correct Option

- ✓ 5
- ✓ 10
- ✓ **11**.....(For More Visit VUStudents.pk)
- ✓ 12

Question NO 7

MS DOC used _____ display mode.

Select Correct Option

- ✓ **Character based**.....(For More Visit VUStudents.pk)
- ✓ Graphics based
- ✓ Numeric bases
- ✓ Console based

Question NO 8

Each screen location corresponds to a word, the lower byte of this word contains _____.

Select Correct Option

- ✓ **The character code**.....(For More Visit VUStudents.pk)
- ✓ The attribute code
- ✓ The parameters
- ✓ The dimensions

Question NO 9

Which of the following options contain the set of instructions to open a window to the video memory?

Select Correct Option

- ✓ mov AX, 0xb008
mov ES, AX
- ✓ **mov AX, 0xb800**.....(For More Visit VUStudents.pk)
mov ES, AX
- ✓ mov AX, 0x8b00
mov ES, AX
- ✓ mov AX, 0x800b
mov ES, AX





Question NO 10

Is STOSW instruction, SI is decremented or incremented by

Select Correct Option

- ✓ 1
- ✓ **2**.....(For More Visit VUStudents.pk)
- ✓ 3
- ✓ 4

Question NO 11

8088 processor divides interrupts into _____ classes.

Select Correct Option

- ✓ **2**.....(For More Visit VUStudents.pk)
- ✓ 3
- ✓ 4
- ✓ 5

Question NO 12

MOVS instruction transfers a byte or word from which of the following source locations.

Select Correct Option

- ✓ ES:DI
- ✓ DS:DO
- ✓ ES:SI
- ✓ **DS:SI**.....(For More Visit VUStudents.pk)

Question NO 13

Which of the following is the pair of register used to access memory in string instruction?

Select Correct Option

- ✓ DI and BP
- ✓ DI and SI
- ✓ SI and BP
- ✓ **DS and SI**.....(For More Visit VUStudents.pk)

Question NO 14

When the instruction “CMP AX,BX” executes and after execution ZF is set, it indicated that

Select Correct Option

- ✓ BX is greater
- ✓ **Both AX and BX are equal**.....(For More Visit VUStudents.pk)
- ✓ ZF has no relation with CMP
- ✓ AX is greater





Question NO 15

Which Register(s) is/are changed during execution of the CALL instruction?

Select Correct Option

- ✓ IP only
- ✓ **IP and SP only**.....(For More Visit VUStudents.pk)
- ✓ SP only
- ✓ BP and IP only

Question NO 16

Which of the following is an illegal instruction?

Select Correct Option

- ✓ PUSH AX
- ✓ PUSH BX
- ✓ **PUSH DL**.....(For More Visit VUStudents.pk)
- ✓ PUSH DX

Question NO 17

Relating to the stack in 8088 architecture which of the following statements is true?

Select Correct Option

- ✓ **Single word can not be pushed on the stack**.....(For More Visit VUStudents.pk)
- ✓ Single word can not be popped from the stack
- ✓ Single byte can not be popped from the stack
- ✓ Single quad can be popped from the stack

Question NO 18

ASCII Stands for _____.

Select Correct Option

- ✓ **American Standard Code for Information Interchange**
- ✓ American Scientific Code for International Interchange
- ✓ American Standard Code for Intelligence Interchange
- ✓ American Scientific Code for Information Interchange

Question NO 19

In assembly the CX register is used normally as _____ register.

Select Correct Option

- ✓ Source
- ✓ **Counter**.....(For More Visit VUStudents.pk)
- ✓ Index
- ✓ Pointer





Question NO 20

How many characters were defined by standard ASCII?

Select Correct Option

- ✓ 64
- ✓ **128**.....(For More Visit VUStudents.pk)
- ✓ 256
- ✓ 512

(File 2)

Question No 1

The assembly instruction to put the value of AX on the stack is

Select Correct Option

- ✓ **PUSH AX**.....(For More Visit VUStudents.pk)
- ✓ Mov Stack, AX
- ✓ ADD AX
- ✓ SEND AX

Question NO 2

Which bit of the attributes byte represents the red component of foreground color

Select Correct Option

- ✓ 5
- ✓ 4
- ✓ 3
- ✓ **2**.....(For More Visit VUStudents.pk)

Question NO 3

The clear screen operation initializes whole block of video memory to

Select Correct Option

- ✓ 0417
- ✓ 0741
- ✓ 0714
- ✓ 0174

Question NO 4

In the execution of the instruction “REP STOSB” STOSB will repeat itself

Select Correct Option

- ✓ AX times
- ✓ BX times
- ✓ **CX times**.....(For More Visit VUStudents.pk)
- ✓ DX times





Question NO 5

By executing which of the following instruction, the value in AX register becomes double of previously stored value?

Select Correct Option

- Shl AX, 1**.....(For More Visit VUStudents.pk)
- Shr AX, 1
- NOT AX
- AND AX, 0xFFFF

Question NO 6

In the statement “Num1: dw 5” , 5 is stored in memory as (on Intel-based machines):

Select Correct Option

- 0005
- 0500**.....(For More Visit VUStudents.pk)
- 5
- 005

Question NO 7

In the instruction “CMP AX,BX” the contents of

Select Correct Option

- AX are changed
- BX are changed
- CX are changed
- Flags register are changed**.....(For More Visit VUStudents.pk)

Question NO 8

The maximum parameters a subroutine can receive (with the help of registers) are

Select Correct Option

- 6
- 7**.....(For More Visit VUStudents.pk)
- 8
- 9

Question NO 9

To convert any digit to its ASCII representation

Select Correct Option

- Add 0x30 in the digit**.....(For More Visit VUStudents.pk)
- Subtract 0x30 from the digit
- Add 0x61 in the digit
- Subtract 0x61 in the digit





Question NO 10

When a very large number is divided by a very small number so that the quotient is larger than the space provided, this is called.

Select Correct Option

- ✓ Divide logical error
- ✓ **Divide overflow error**.....(For More Visit VUStudents.pk)
- ✓ Divide syntax error
- ✓ An illegal instruction

Question NO 11

In the primitive form, the block processing instructions operate on _____ of memory at one time.

Select Correct Option

- ✓ Whole block
- ✓ **A single cell**.....(For More Visit VUStudents.pk)
- ✓ A single bit
- ✓ Whole segment

Question NO 12

In string manipulation whenever an instruction needs a memory destination, which of the following will hold the pointer to it?

Select Correct Option

- ✓ ES:DI
- ✓ ES:BP
- ✓ DS:BP
- ✓ **DS:SI**.....(For More Visit VUStudents.pk)

Question NO 13

In A4FB:4872 Segment offset pair the physical address is (both segment and offset are in hexadecimal).

Select Correct Option

- ✓ A4FB0
- ✓ 04872
- ✓ **A9822**.....(For More Visit VUStudents.pk)
- ✓ A4872

Question NO 14

Which bit of the Attribute Byte (counting from right to left, starting from 0) represents to BLUE component of foreground color?

Select Correct Option

- ✓ 3
- ✓ 2
- ✓ 1
- ✓ **0**.....(For More Visit VUStudents.pk)





Question NO 15

Each screen location corresponds to _____ in a video memory.

Select Correct Option

- ✓ One byte
- ✓ **Two bytes**.....(For More Visit VUStudents.pk)
- ✓ Four bytes
- ✓ Eight bytes

Question NO 16

When a 16 bit number is divider by 8 bit number, the quotient will be stored in

Select Correct Option

- ✓ AX
- ✓ **AL**.....(For More Visit VUStudents.pk)
- ✓ AH
- ✓ DX

Question NO 17

The IAPX88 processor supports _____ memory addressing modes.

Select Correct Option

- ✓ 5
- ✓ 6
- ✓ **7**.....(For More Visit VUStudents.pk)
- ✓ 8

Question NO 18

The operation of _____ is to subtract the source operand from the destination opernd.

Select Correct Option

- ✓ ADDX
- ✓ JNC
- ✓ **CMP**.....(For More Visit VUStudents.pk)
- ✓ JNZ

Question NO 19

If the decimal number “35” is shifted by two bit to left, the new value will be _____.

Select Correct Option

- ✓ 35
- ✓ 70
- ✓ **140**.....(For More Visit VUStudents.pk)
- ✓ 17





Question NO 20

While using STOSW, if DF=0 then

Select Correct Option

- ✓ The value of SI will be incremented by one
- ✓ **The value of SI will be incremented by two**.....(For More Visit VUStudents.pk)
- ✓ The value of SI will be decremented by one
- ✓ The value of SI will be decremented by two

(File 3)

Question No 1

If a rotate through carry right (RCR) instruction is applied on a 16 bit word, effectively there is

Select Correct Option

- ✓ 16-bits rotation
- ✓ 1-bits rotation
- ✓ **17-bits rotation**.....(For More Visit VUStudents.pk)
- ✓ 8-bits rotation

Question NO 2

The near CALL instruction

Select Correct Option

- ✓ Push only segment on the stack
- ✓ Push only offset on the stack
- ✓ **Push both segment and offset on the stack**.....(For More Visit VUStudents.pk)
- ✓ Do not push any thing

Question NO 3

If AX=5, BX=5, CF and ZF are set, AF and DX contains zero then after the execution of instruction "ADC AX, BX", AX will contain the value:

Select Correct Option

- ✓ 5
- ✓ 10
- ✓ **11**.....(For More Visit VUStudents.pk)
- ✓ 12

Question NO 4

For the execution of the instruction "DIV BL", the implied dividend will be stored in

Select Correct Option

- ✓ **AX**.....(For More Visit VUStudents.pk)
- ✓ BX
- ✓ CX
- ✓ DX





Question NO 5

MS DOC used _____ display mode.

Select Correct Option

- Character based**.....(For More Visit VUStudents.pk)
- Graphics based
- Numeric bases
- Console based

Question NO 6

The execution of the instruction “mov word [ES : 160], ox123” will print character “0” on the screen, the color of the character “0” will be

Select Correct Option

- White
- Red
- Green**.....(For More Visit VUStudents.pk)
- Blue

Question NO 7

In the primitive form, the block processing instructions operate on _____ of memory at one time.

Select Correct Option

- Whole block
- A single cell**.....(For More Visit VUStudents.pk)
- A single bit
- Whole segment

Question NO 8

Is STOSW instruction, SI is decremented or incremented by

Select Correct Option

- 1
- 2**.....(For More Visit VUStudents.pk)
- 3
- 4

Question NO 9

CMPS instruction subtracts the source location to the destination location. Destination location always lies in

Select Correct Option

- DS:SI
- DS:DI
- ES:SI
- ES:DI**.....(For More Visit VUStudents.pk)





Question NO 10

If BL contains 00000101 then after a Single Right Shift, BL will contain

Select Correct Option

- ✓ 0000011
- ✓ **0000010**.....(For More Visit VUStudents.pk)
- ✓ 1000011
- ✓ 1000010

Question NO 11

Each screen location corresponds to _____ in a video memory.

Select Correct Option

- ✓ One byte
- ✓ **Two bytes**.....(For More Visit VUStudents.pk)
- ✓ Four bytes
- ✓ Eight bytes

Question NO 12

ASCII Stands for _____.

Select Correct Option

- ✓ **American Standard Code for Information Interchange**
- ✓ American Scientific Code for International Interchange
- ✓ American Standard Code for Intelligence Interchange
- ✓ American Scientific Code for Information Interchange

Question NO 13

What is the ASCII code for 'A'?

Select Correct Option

- ✓ **0x41**.....(For More Visit VUStudents.pk)
- ✓ 0x40
- ✓ 0x31
- ✓ 0x30

Question NO 14

386 processor is _____ compatible with iAPX88

Select Correct Option

- ✓ Upward
- ✓ **Downward**.....(For More Visit VUStudents.pk)
- ✓ Cross
- ✓ Not





Question NO 15

If All contain -15 then what will be the decimal value of AL after “SAR AL, 1” is executed

Select Correct Option

- 7.....(For More Visit VUStudents.pk)
- 7
- 8
- 8

Question NO 16

Inside the computer signed number are represented in _____ complement notation.

Select Correct Option

- Two's.....(For More Visit VUStudents.pk)
- One's
- Zero's
- Fractional

Question NO 17

The _____ flag plays the role of borrow during the subtraction operation.

Select Correct Option

- Carry.....(For More Visit VUStudents.pk)
- Parity
- Sign
- Zero

Question NO 18

The foreground and background color parameters are set by

Select Correct Option

- 32 bits
- 16 bits
- 8 bits
- 4 bits

Question NO 19

Which bit of the Attribute Byte (counting from right to left, starting from 0) represents the GREEN component of background color?

- 6
- 3
- 4
- 5.....(For More Visit VUStudents.pk)





Question NO 20

In string manipulation whenever an instruction needs a memory source, which of the following will hold the pointer to it?

Select Correct Option

- ✓ **DS:DI**.....(For More Visit VUStudents.pk)
- ✓ ES:BP
- ✓ DS:BP
- ✓ DS:SI

(File 4)

Question No 1

ASCII Stands for _____.

Select Correct Option

- ✓ **American Standard Code for Information Interchange**
- ✓ American Scientific Code for International Interchange
- ✓ American Standard Code for Intelligence Interchange
- ✓ American Scientific Code for Information Interchange

Question NO 2

The extended ASCII has

Select Correct Option

- ✓ 64 Characters
- ✓ 128 Characters
- ✓ **256 Characters**.....(For More Visit VUStudents.pk)
- ✓ 502 Characters

Question NO 3

To reserve 8-bit in memory _____ directive is used.

Select Correct Option

- ✓ **db**.....(For More Visit VUStudents.pk)
- ✓ dw
- ✓ dn
- ✓ dd

Question NO 4

When the RET instruction is executed, it recovers the value of instruction pointer from the

Select Correct Option

- ✓ Register
- ✓ **Stack**.....(For More Visit VUStudents.pk)
- ✓ Data segment
- ✓ Code segment





Question NO 5

The execution of the instruction “mov word [ES : Di], 0x0720”

Select Correct Option

- ✓ **Will clear next character on screen**.....(For More Visit VUStudents.pk)
- ✓ Will print “20” on top Left of the screen
- ✓ Will print “20” on top right of the screen
- ✓ Will move DI at location 0720 on the screen

Question NO 6

Which bit sets the character “blinking” on the screen?

Select Correct Option

- ✓ 5
- ✓ 6
- ✓ **7**.....(For More Visit VUStudents.pk)
- ✓ 8

Question NO 7

To transfer control back, the RET instruction takes

Select Correct Option

- ✓ 2 arguments
- ✓ 3 arguments
- ✓ 4 arguments
- ✓ **No arguments**.....(For More Visit VUStudents.pk)

Question NO 8

When a very large member is divided by very small number so that the quotient is larger than the

Select Correct Option

- ✓ Quotient will take an extra byte to be stored
- ✓ Quotient will not be stored anywhere and instruction will skipped
- ✓ An interrupt will be generated and the program will be terminated
- ✓ Quotient will be divided again until it fits the space provided

Question NO 9

Each screen location corresponds to a word, the lower byte of this word contains _____.

Select Correct Option

- ✓ **The character code**.....(For More Visit VUStudents.pk)
- ✓ The attribute code
- ✓ The parameters
- ✓ The dimensions





Question NO 10

The execution of the instruction “mov word [ES : 160], 0x1230” will print character “0” on the screen, the color “0” will be

Select Correct Option

- ✓ White
- ✓ Red
- ✓ **Green**.....(For More Visit VUStudents.pk)
- ✓ Blue

Question NO 11

In A4FB:4872 Segment offset pair the physical address is (both segment and offset are in hexadecimal).

Select Correct Option

- ✓ A4FB0
- ✓ 05872
- ✓ **A9822**.....(For More Visit VUStudents.pk)
- ✓ A4872

Question NO 12

Which of the following flags will be affected by MOVSB?

Select Correct Option

- ✓ DF
- ✓ ZF
- ✓ PF
- ✓ **No effect on flags**.....(For More Visit VUStudents.pk)

Question NO 13

When the operand of DIV instruction is of 16 bits then implied dividend will be stored in _____.

Select Correct Option

- ✓ The concatenation of DS and BX
- ✓ **AX register**.....(For More Visit VUStudents.pk)
- ✓ The concatenation of ES and AX
- ✓ The concatenation of DX and AX

Question NO 14

The execution of the instruction “mov word [ES : 160], 0x123” will print character “0” on the screen, the background color will be

Select Correct Option

- ✓ White
- ✓ Red
- ✓ Green
- ✓ **Blue**.....(For More Visit VUStudents.pk)





Question NO 15

When a 16 bit number is divided by 8 bit number, the quotient will be stored in

Select Correct Option

- ✓ AX
- ✓ **AL**.....(For More Visit VUStudents.pk)
- ✓ AH
- ✓ DX

Question NO 16

The bits of the _____ word independently and individually

Select Correct Option

- ✓ Index register
- ✓ Base Register
- ✓ **Flags Register**.....(For More Visit VUStudents.pk)
- ✓ Accumulator Register

Question NO 17

All possible types of Jumps in assembly language are:

Select Correct Option

- ✓ short, far
- ✓ short, near
- ✓ **short, near, far**.....(For More Visit VUStudents.pk)
- ✓ short, near, far, long

Question NO 18

The first possible segment base value is _____.

Select Correct Option

- ✓ **0000**.....(For More Visit VUStudents.pk)
- ✓ 0001
- ✓ 0010
- ✓ 0100

Question NO 19

Code Segment is associated to _____ register by default

Select Correct Option

- ✓ **IP**.....(For More Visit VUStudents.pk)
- ✓ SS
- ✓ BP
- ✓ CX





For More Visit VUStudents.pk



Question NO 20

Which bit of the Attribute Byte (counting from right to left, starting from 0) represents the GREEN component of background color?

- ✓ 1
- ✓ 2
- ✓ 3
- ✓ 4

The END



For More Visit VUStudents.pk

