

CS401- Computer Architecture and Assembly Language

---

1 argument

1 argument

3 arguments

No arguments

Question No: 2 ( M - 1 )

In STOSB instruction SI is decremented or incremented by

4

1

**2**

3

Question No: 3 ( M - 1 )

CMPS instruction subtracts the source location to the destination location.

Destination location always lies in

DS:SI

DS:DI

ES:SI

ES:DI

Question No: 4 ( M - 1 ) .

Regarding assembler, which statement is true:

Assembler converts mnemonics to the corresponding OPCODE

Assembler converts OPCODE to the corresponding mnemonics.

Assembler executes the assembly code all at once

Assembler executes the assembly code step by step

Question No: 5 ( M - 1 ) .

If "BB" is the OPCODE of the instruction which states to "move a constant value to AX register", the hexadecimal representation (Using little Endian notation) of the instruction "Mov AX,336" ("150" in hexadecimal number system) will be:

0xBB0150

0x5001BB

0x01BB50

0xBB5001

Question No: 6

( M - 1 ) .

In the instruction MOV AX, 5 the number of operands are

1

2

3

4

Question No: 7

( M - 1 ) .

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

6

7

8

9

Question No: 8

( M - 1 ) .

In assembly the CX register is used normally as a \_\_\_\_\_ register.

source

counter

index

pointer

Question No: 9

( M - 1 ) .

All the addressing mechanisms in iAPX 8 8 return a number called \_\_\_\_\_ address .

**effective**

faulty

indirect

direct

Question No: 10 ( M - 1 ) .

When a 16 bit number is divided by an 8 bit number, the dividend will be in

**AX**

BX

CX

DX

Question No: 11 ( M - 1 ) .

in Left-Shift-Operation the left most bit \_\_\_\_\_

**will drop**

will go into CF

Will come to the right most

will be always 1

Question No: 12 ( M - 1 ) .

Suppose the decimal number "35" after shifting its binary two bits to left, the new value becomes \_\_\_\_\_

35

70

140

17

Question No: 13 ( M - 1 ) .

When divide overflow occurs processor will be interrupted this type of interrupt is called

Hardware interrupt

Software interrupt

Processor exception

Logical interrupts

Question No: 14 ( M - 1 ) .

Which mathematical operation is dominant during the execution of SCAS instruction

Division

Multiplication

Addition

**Subtraction**

Question No: 15 ( M - 1 ) .

After the execution of REP instruction CX will be decremented then which of the following flags will be affected?

CF

OF

DF

**No flags will be affected**

Question No: 16 ( M - 1 )

\_\_\_\_\_ is one of the reasons due to which string instructions are used in 8088

Efficiency and accuracy

Reduction in code size and accuracy

Reduction in code size and speed

Reduction in code size and efficiency

Question No: 17 ( M - 1 )

Write any two control instructions.

Question No: 18 ( M - 1 )

RET instruction take how many arguments

Question No: 19 ( M - 2 )

Explain the function of rotate right (ROR) instruction

Question No: 20 ( M - 2 )

Describe the PUSH function

Question No: 21 ( M - 3 )

Write down the names of four segment registers?

Question No: 22 ( M - 3 )

For what purpose "INT 4" is reserved?

Question No: 23 ( M - 5 )

Given that  $[BX+0x0100]$   $BX=0x0100$

$Ds=0xFFFF0$

Calculate the physical address

Question No: 1 ( M - 1 )

Th

The physical address of the stack is obtained by

► **SS:SP combination**

► SS:SI combination

► **SS:SP combination**

► ES:BP combination

► ES:SP combination

**Question No: 2 ( M - 1 )**

After the execution of instruction "RET "

► **SP is incremented by 2**

► **SP is incremented by 2**

► SP is decremented by 2

► SP is incremented by 1

► SP is decremented by 1

Aft

**Question No: 3 ( M - 1 )**

The second byte in the word designated for one screen location holds

► **Character color on the screen**

► The dimensions of the screen

► Character position on the screen

► **Character color on the screen**

Th



- ▶ ASCII code of the character

**Question No: 4 ( M - 1 )** :

P will always

- ▶ **Decrement CX by 1**
- ▶ Increment CX by 1
- ▶ Increment CX by 2
- ▶ **Decrement CX by 1**
- ▶ Decrement CX by 2

RE

**Question No: 5 ( M - 1 )** :

The basic function of SCAS instruction is to

- ▶ **Compare**
- ▶ **Compare**
- ▶ Scan
- ▶ Sort
- ▶ Move data

Th

**Question No: 6 ( M - 1 )** :

Two registers are used to store \_\_\_\_\_

- ▶ **Address**
- ▶ Data
- ▶ Intermediate result

Ind

- ▶ **Address**
- ▶ Both data and addresses

**Question No: 7 ( M - 1 )** .

e bits of the \_\_\_\_\_ work independently and individually

- ▶ **flags register**
- ▶ index register
- ▶ base register
- ▶ **flags register**
- ▶ accumulator

Th

**Question No: 8 ( M - 1 )** .

convert any digit to its ASCII representation

- ▶ **Add 0x30 in the digit**
- ▶ **Add 0x30 in the digit**
- ▶ Subtract 0x30 from the digit
- ▶ Add 0x61 in the digit
- ▶ Subtract 0x61 from the digit

To

**Question No: 9 ( M - 1 )** .

hen a 32 bit number is divided by a 16 bit number, the quotient is of

- ▶ **4 bits**
- ▶ 32 bits
- ▶ 16 bits
- ▶ 8 bits
- ▶ **4 bits**

W

**Question No: 10 ( M - 1 )** .

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

W

▶ **AL**

- ▶ AX
- ▶ **AL**
- ▶ AH
- ▶ DX

**Question No: 11 ( M - 1 )**

Which mathematical operation is dominant during the execution of SCAS instruction

W

- ▶ **Division**
- ▶ **Division**
- ▶ Multiplication
- ▶ Addition
- ▶ Subtraction

**Question No: 12 ( M - 1 )**

AX contains decimal -2 and BX contains decimal 2 then after the execution of instructions:

If

`CMP AX, BX`

`JA label`

- ▶ **Zero flag will set**
- ▶ Jump will be taken
- ▶ **Zero flag will set**
- ▶ ZF will contain value -4
- ▶ Jump will not be taken

Question No: 13 ( M - 1 )

The execution of the instruction "mov word [ES : 160], 0x1230" will print a character "0" on the screen at

- ▶ First column of second row
- ▶ Second column of first row
- ▶ First column of second row
- ▶ Second column of second row
- ▶ First column of third row

Question No: 14 ( M - 1 )

If the direction of the processing of a string is from higher addresses towards lower addresses then

- ▶ DF is cleared
- ▶ ZF is cleared
- ▶ DF is cleared
- ▶ ZF is set
- ▶ DF is set

Question No: 15 ( M - 1 )

The instruction ADC has \_\_\_\_\_ Operand(s)

- ▶ 3
- ▶ 0
- ▶ 1
- ▶ 2
- ▶ 3

Question No: 16 ( M - 1 )

Which bit of the attributes byte represents the red component of background color ?

- ▶ 3

- ▶ 3
- ▶ 4
- ▶ 5
- ▶ 6

**Question No: 17 ( M - 2 )**

**W**

**What is difference between SHR and SAR instructions?**

**SHR**

The SHR inserts a zero from the left and moves every bit one position to the right and copy the rightmost bit in the carry flag.

**SAR**

The SAR shift every bit one place to the right with a copy of the most significant bit left at the most significant place. The bit dropped from the right is caught in the carry basket. The sign bit is retained in this operation.

**Question No: 18 ( M - 2 )**

**For**

For what purpose "INT 1" is reserved ?

**Question No: 19 ( M - 2 )**

**Define**

Define implied operand?

It is always in a particular register say the accumulator. It needs to not be mentioned in the instruction.

Q=1:

Which bit of attributes byte represents the blue component of foreground color?

- 0
- 1
- 2
- 3

Q=2:

The clear screen operation initializes the whole block of video memory to:

- 0417
- 0714
- 0741
- 017

Q=3:

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

- 64-bit
- 32-bits
- 16-bits
- 8--bits

Q=4

Which of the following is the pair of register used to access memory instring instruction:

- DI and BP
- SI and BP
- DI and SI
- DS and Si

Q=5

A fat32 file system directory entry in DOS consist of how many bytes?

- 16
- 24
- 32
- 64

Q=6:

Which register is generally used to specify the services number of an interrupt?

- DX
- AX
- BX
- CX

.....

Q=7:

In 9 pin db 9 connector ,which pin is assigned to RD(received data)

- 1
- 2
- 3
- 4

Q=8

In case of COM file, maximum length of parameters passed through command line can be.....

- 63 bytes
- 127bytes
- 255 bytes
- 511 bytes

Q=9

We can access the DOS service using;

- Int 0x21
- Int 0x13
- Int 0x 10
- Int 0x 08

Q=10

In 9 pin 9 connector,which pin is assigned to signal ground

- 3
- 4
- 5
- 6

Q=11:

BPB stands for

- Basic parameter block
- Bios precise block
- Basic precise block
- Bios parameter block

Q=12

Int 13-bios disk service "generally uses which register to return the error flag?

- CF
- DL
- AH
- AL

Q=13:

The first sector on the hard disk contains the

- Hard disk size
- Partition table
- Data size
- Sector size

Q=14

Operating system organize data in the form of

- Folder
- Batch file
- File



•  None of above

.....

Q=15

In 9 pin db 9 connector, which pin is assigned to TD(transmitted data)

•  1

•  2

•  3

•  4

Q=16"

Device derive can be divided into -----major categories.

•  5

•  4

•  3

•  2

1. BL contains 5 decimal then after right shift , BL will become

•  3

•  2.5

•  5

•  10

2. 8 \* 16 font is stored in \_\_\_\_\_ bytes.

•  3

•  4

•  8

•  16

3. In DOS input buffer , number of characters actually read on return is stored in

- First byte
- **Second byte**
- Third byte
- Fourth byte

4. IRQ 0 has priority

- Low
- High
- **Highest**
- Medium

5. Thread registration code initialize PCB and add to linked list so that \_\_\_\_\_ will give it turn.

- Assembler
- Linker
- **Scheduler**
- Debugger

6. Traditional calling conventions are in \_\_\_\_\_ number

- 1
- **2**
- 3
- 4

7. VESA VEB 2.0 is standard for

- **High Resolution Mode**
- Low Resolution Mode
- Very High Resolution Mode
- Medium Resolution Mode

8. To clear direction flag which instruction is used

- **Cld**

- Clrd
- Cl df
- Clr df

9. In STOSW instruction , When DI is cleared , SI is

- Incremented by 1
- **Incremented by 2**
- Decremented by 1
- Decremented by 2

10. Interrupt that is used in debugging with help of trap flag is

- INT 0
- **INT 1**
- INT 2
- INT 3

11. INT for arithmetic overflow is

- INT 1
- INT 2
- INT 3
- **INT 4**

12. IRQ referred as

- **Eight Input signals**
- One Input signal
- Eight Output signals
- One output signal

13. IRQ for keyboard is 1

14. IRQ for sound card is 5

15. IRQ for floppy disk is 6

16. IRQ with highest priority is

- Keyboard IRQ
- Timer IRQ
- Sound Card
- Floppy Disk

17. Pin for parallel port ground is

- 10-18
- 18-25
- 25-32
- 32-39

18. The physical address of Interrupt Descriptor Table (IDT) is stored in

- GDTR
- IDTR
- IVT
- IDTT

19. Execution of "RET 2" results in?

20. CX register is

- Count register
- Data register
- Index register
- Base register

21. OUT instruction uses AX as source register.

22. IN DB-9 connector the Data Set ready pin is at

- 5
- 6

- 7
- 8

23. If two devices uses same IRQ then there is

- IRQ collision
- IRQ conflict
- IRQ drop

24. VESA organizes 16 bit color for every pixel in ratio

- 5:5:5
- 5:6:5
- 6:5:6
- 5:6:7

25. Division by zero is done by which interrupt.

Interrupt 0.

---

Question No: 1 ( M - 1 )

er the execution of SAR instruction

Aft

▶ The msb is replaced by a 0

- ▶ The msb is replaced by 1
- ▶ The msb retains its original value
- ▶ The msb is replaced by the value of CF

Question No: 2 ( M - 1 )

RE

TF will pop the offset in the

- ▶ BP
- ▶ IP
- ▶ SP
- ▶ SI

Question No: 3 ( M - 1 )

Th

The routine that executes in response to an INT instruction is called

- ▶ ISR
- ▶ IRS
- ▶ ISP
- ▶ IRT

Question No: 4 ( M - 1 )

Th

The first instruction of "COM" file must be at offset:

- ▶ 0x0010
- ▶ 0x0100
- ▶ 0x1000
- ▶ 0x0000

Question No: 5 ( M - 1 )

"F

"far" jump is not position relative but is \_\_\_\_\_

- ▶ memory dependent
- ▶ Absolute
- ▶ temporary
- ▶ indirect

Question No: 6 ( M - 1 ) :

ly \_\_\_\_\_ instructions allow moving data from memory to memory.

On

▶ string

- ▶ word
- ▶ indirect
- ▶ stack

Question No: 7 ( M - 1 ) :

er the execution of instruction "RET 2"

Aft

▶ SP is incremented by 2

- ▶ SP is decremented by 2
- ▶ SP is incremented by 4
- ▶ SP is decremented by 4

Question No: 8 ( M - 1 ) :

V instruction has

DI

▶ Two forms

- ▶ Three forms
- ▶ Four forms
- ▶ Five forms

Question No: 9 ( M - 1 ) :

W

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

- ▶ 8 bits
- ▶ 16 bits
- ▶ **32 bits**
- ▶ 64 bits

**Question No: 10 ( M - 1 )** :

After the execution of MOVS instruction which of the following registers are updated

- ▶ SI only
- ▶ DI only

▶ **SI and DI only**

- ▶ SI, DI and BP only

Aft

**Question No: 11 ( M - 1 )** :

In 8088 architecture, whenever an element is pushed on the stack

- ▶ SP is decremented by 1
- ▶ **SP is decremented by 2**
- ▶ SP is decremented by 3
- ▶ SP is decremented by 4

In

**Question No: 12 ( M - 1 )** :

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

- ▶ Divide logical error

▶ **Divide overflow error**

W



- ▶ Divide syntax error
- ▶ An illegal instruction

**Question No: 13 ( M - 1 )** :

the word designated for one screen location, the higher address contains

In

**▶ The character code**

- ▶ The attribute byte
- ▶ The parameters
- ▶ The dimensions

**Question No: 14 ( M - 1 )** :

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

W

- ▶ `mov AX, 0xb008`

`mov ES, AX`

**▶ `mov AX, 0xb800`**

**`mov ES, AX`**

- ▶ `mov AX, 0x8b00`

`mov ES, AX`

- ▶ `mov AX, 0x800b`

`mov ES, AX`

**Question No: 15 ( M - 1 )** :

in a video memory, each screen location corresponds to

In

- ▶ One byte

**▶ Two bytes**

- ▶ Four bytes

- ▶ Eight bytes

**Question No: 16 ( M - 1 )** :

the execution of the instruction "mov word [ES : 0], 0x0741" will print character "A" on screen , background color of the screen will be

► **Black**

► White

► Red

► Blue

**Question No: 1** \_\_\_( M - 1 ) .

Which of the following is not true about registers?

1. Their operation is very much like memory
2. Intermediate results may also be stored in registers.
3. They are also called scratch pad ram
4. None of given options.

**Question No: 2** \_\_\_( M - 1 ) .

move [bp], al moves the one byte content of the AL register to the address contained in BP register in the current

1. Stack segment
2. Code segment
3. Data segment
4. Extra segment

**Question No: 3** ( M - 1 ) .

In a rotate through carry right (RCR) instruction applied on a 16 bit word  
Effectively there is

1. 16 bits rotation
2. 1 bit rotation
3. 17 bits rotation
4. 8 bits rotation

**Question No: 4\_\_ ( M - 1 ) - Please**

choose one The 8088 stack works on

1. Word sized elements
2. Byte sized elements
3. Double sized element
4. Nibble sized element

**Question No: 5 ( M - 1 ) - Please**

choose one

An 8 x 16 font is stored in.....Bytes

1. 2
2. 4
3. 8
4. 16

**Question No: 6 ( M - 1 ) - Please**

INT 10 is used for.....services.

1. RAM
2. Disk
3. BIOS video

4. DOS video

**Question No: 7 ( M - 1 ) :**

Priority of IRQ 0 interrupt is

1. medium
2. high
3. highest
4. low

**Question No: 8 ( M - 1 ) :**

Threads can have function calls, parameters and \_\_\_\_\_ variables.

1. global
2. local
3. legal
4. illegal

**Question No: 9 ( M - 1 ) - Please choose**

one How many prevalent calling conventions do.....exist

1. 1
2. 2
3. 3
4. 4

**Question No: 10 ( M - 1 ) - Please choose**

one In 9pin DB 9 DSR is assigned on pin number

1. 4
2. 5
3. 6
4. 7



3. Bit 14
4. Bit 15

**Question No: 15\_\_ ( M - 1 ) .**

Video services are classified into \_\_\_\_\_ broad categories

- 2
- 3
- 4
- 5

**Question No: 16 ( M - 1 ) - Please choose**

one In STOSB instruction, when DF is clear, SI is

1. Incremented by 1
2. Incremented by 2
3. Decrement by 1
4. Decrement by 2

**Question No: 17 ( M - 1 ) . The**

process of sending signals back and forth is called

1. Activity
2. Hand-shaking
3. Interruption
4. Time clicking

**Question No: 18 ( M - 1 ) .**

which of the following is a special type of interrupt that returns to the same instruction instead of the next instruction

1. Divide overflow interrupt
2. Debug interrupt
3. Arithmetic overflow interrupt
4. Change of sign interrupt

**Question No: 19** \_\_ ( M - 1 ) .

Which of the following IRQs is derived by a timer device?

1. IRQ 0
2. IRQ 1
3. IRQ 2
4. IRQ 3

**Question No: 20** \_\_ ( M - 1 ) .

Which of the following interrupts is used for Arithmetic overflow

1. INT 1
2. INT 2
3. INT 3
4. INT 4

**Question No: 21** \_\_ ( M - 1 ) .

Which of the following IRQs is connected to serial port COM 2?

1. IRQ 0
2. IRQ 1
3. IRQ 2
4. IRQ 3

**Question No: 22** \_\_ ( M - 1 ) - Please

choose one

An End of Interrupt (EOI) signal is sent by

1. Handler
2. Processor
3. IRQ
4. PIC

**Question No: 23 ( M - 1 ) :**

The source registers in OUT is

1. AL or AX
2. BL or BX
3. CL or CX
4. DL or DX

**Question No: 24 ( M - 1 ) :**

In programmable interrupt controller which of the following ports is used for selectively enabling or disabling interrupts

1. 19
2. 20
3. 21
4. 22

**Question No: 25 ( M - 1 ) :**

The number of pins in a parallel port connector are?

1. 25
2. 30
3. 35

**Question No: 26 ( M - 1 ) :**

Which of the following pins of a parallel port connector are grounded?

1. 10-18
2. 18-25
3. 25-32
4. 32-39



**Question No: 27 \_\_ ( M - 1 ) :**

Suppose a decimal number 35 when its binary is shifted to write two places the new number will become

1. 35
2. 70
3. 140
4. 17

**Question No: 28 \_\_ ( M - 1 ) :**

A 32bit address register can access upto .....of memory so memory access has increased a lot.

1. 2GB
2. 4GB
3. 6GB
4. 8GB

**Question No: 29 \_\_ ( M - 1 ) :**

In NASM an imported symbol is declared with the .....while and exported symbol is declared with the .....

1. Global directive, External directive
2. External directive, Global directive
3. Home Directive, Foreign Directive
4. Foreign Directive, Home Directive

**Question No: 30 ( M - 1 ) - Please choose**

one Single step interrupt is

1. Hardware interrupt
2. Like divide by zero interrupt

- 3. Like divide by 1 interrupt
- 4. Software interrupt

**Question No: 31 \_\_ ( M - 1 )**

Which services are gained bi INT 0x16

**Solution:**

- Hardware interrupt
- Like divide by zero interrupt
- Like divide by 1 interrupt
- Software interrupt

**Question No: 32 ( M - 1**

**Give the name of any one VESA servic**

- Hardware interrupt
- Like divide by zero interrupt
- Like divide by 1 interrupt
- Software interrupt

**Question No: 33 ( M - 2 )**

**INT 14 - SERIAL - READ CHARACTER FROM PORT**  
**By using above port what do AH,AL and DX shows here?**

- Hardware interrupt
- Like divide by zero interrupt
- Like divide by 1 interrupt
- Software interrupt

**Question No: 34 ( M - 2 )**

**What do these instructions do ? write your answer in single line.**  
**mov cx, 0xffff**  
**loop \$**

- Hardware interrupt
- Like divide by zero interrupt
- Like divide by 1 interrupt



1. 16bit
2. 32bit
3. 64bit
4. 20bit

**Question No: 2 ( M - 1 )**

:-

When the subprogram finishes, the \_\_\_\_\_ retrieves the return address from the stack and transfers control to that location.

1. RET instruction
2. CALL instruction
3. POP instruction
4. Jump instruction

**Question No: 3 ( M - 1 )**

:-

A 32 bit address register can access upto \_\_\_\_\_ of memory.

- 1 GB
- 6 GB
- 4 GB
- 2 GB

**Question No: 4 ( M - 1 )**

:-

The value of a segment register when the processor is running under protected mode is called

1. segment descriptor
2. segment selector
3. global descriptor table
4. protected register

**Question No: 5 ( M - 1 )**

▬

FS and GS are two \_\_\_\_\_ in protected mode.

1. segment registers
2. segment selectors
3. stack pointers
4. register pointers

**Question No: 6 ( M - 1 )**

▬

IRQ 0 interrupt have \_\_\_\_\_ priority

1. low
2. medium
3. highest
4. lowest

**Question No: 7 ( M - 1 )**

▬

IDT stands for \_\_\_\_\_.

1. interrupt descriptor table
2. individual descriptor table
3. inline data table
4. interrupt descriptor table

**Question No: 8 ( M - 1 )**

⌵

Every bit of line status in serial port conveys \_\_\_\_\_ information.

- 1. different
- 2. same
- 3. partial
- 4. full

**Question No: 9 ( M - 1 )**

⌵

There are total \_\_\_\_\_ bytes in a standard floppy disk.

- 1. 1444k
- 2. 1440k
- 3. 1280k
- 4. 2480k

**Question No: 10 ( M - 1 )**

⌵

An 8x16 font is stored in \_\_\_\_\_ bytes.

- 8
- 16
- 4
- 20

=====

. Serial Port is also accessible via I/O ports , COM 1 is accessible via ports 3F8-3FF while COM 2 is accessible via 2F8 -2FF.

The first register at 3F8 is the Transmitter holding register if written to and the receiver buffer register if read from.

Other register of our interest include 3F9 whose Bit 0 must be set to enable received data available interrupt and Bit 1 must be set to enable transmitter holding register empty interrupt.

(Transmitter, COM 1, I/O ports , COM2. bit 0 , Buffer , 3FA)

=====

Question # 1

There are three busses to communicate the processor and memory named as \_\_\_\_\_

- 1) : address bus.,data bus and data bus.
- 2) : addressing bus.,data bus and data bus.
- 3) : address bus.,datamove bus and data bus.
- 4) : address bus.,data bus and control bus..

Correct Option : 4 From : Lecture 1

Question # 2

The address bus is unidirectional and address always travels from processor to memory.

- 1) : TRUE
- 2) : FALSE
- 3) :
- 4) :

Correct Option : 1 From : Lecture 1

Question # 3

Data bus is bidirectional because\_\_\_\_\_

- 1) : To way
- 2) : Data moves from both, processor to memory and memory to processor,
- 3) : Data moves from both, processor to memory and memory to data Bus,
- 4) : None of the Given

Correct Option : 3 From : Lecture 1

Question # 4

Control bus\_\_\_\_\_

- 1) : is Not Important.
- 2) : is Important .
- 3) : bidirectional.
- 4) : unidirectional .

Correct Option : 3 From : Lecture 1

Question # 5

A memory cell is an n-bit location to store data, normally \_\_\_\_\_also called a byte

- 1) : 4-bit
- 2) : 8-bit
- 3) : 6-bit
- 4) : 80-bit

Correct Option : 2 From : Lecture 1

Question # 6

The number of bits in a cell is called the cell width.\_\_\_\_\_ define the memory completely.

- 1) : Cell width and number of cells,
- 2) : cell number and width of the cells,
- 3) : width
- 4) : Height

Correct Option : 1 From : Lecture 1

Question # 7

for memory we define two dimensions. The first dimension defines how many \_\_\_\_\_bits are there in a single memory cell.

- 1) : parallel
- 2) : Vertical

3) : long  
4) : short  
Correct Option : 1 From : Lecture 1

Question # 8

\_\_\_\_\_ operation requires the same size of data bus and memory cell width.

1) : Normal  
2) : Best and simplest  
3) : first  
4) : None of the Given  
Correct Option : 2 From : Lecture 1

Question # 9

Control bus is only the mechanism. The responsibility of sending the appropriate signals on the control bus to the memory is of the\_\_\_\_\_.

1) : Data Bus  
2) : processor  
3) : Address Bus  
4) : None of the Given  
Correct Option : 2 From : Lecture 1

Question # 10

In "total: dw 0" Opcode total is a \_\_\_\_\_

1) : Literal  
2) : Variable  
3) : Label  
4) : Starting point  
Correct Option : 3 From : Lecture 10

Question # 11

| 0 | --> | 1 | 1 | 0 | 1 | 0 | 0 | 0 | --> | C | is a example of \_\_\_\_\_

1) : Shl  
2) : sar  
3) : Shr  
4) : Sal  
Correct Option : 3 From : Lecture 10

Question # 12

| C | <-- | 1 | 1 | 0 | 1 | 0 | 0 | 0 | <-- | 0 | is a example of \_\_\_\_\_

1) : Shl  
2) : sar  
3) : Shr  
4) : Sal  
Correct Option : 1 From : Lecture 10

Question # 13

ADC has \_\_\_\_\_ operands.

1) : two  
2) : three  
3) : Five  
4) : Zero  
Correct Option : 2 From : Lecture 10

Question # 14

The basic purpose of a computer is to perform operations, and operations need \_\_\_\_\_.

1) : order



- 2) : nothing
- 3) : operands
- 4) : bit

Correct Option : 3 From : Lecture 2

Question # 15

Registers are like a scratch pad ram inside the processor and their operation is very much like normal\_\_\_\_\_.

- 1) : Number
- 2) : operations
- 3) : memory cells
- 4) : None of the Given

Correct Option : 3 From : Lecture 2

Question # 16

There is a central register in every processor called the \_\_\_\_\_ and The word size of a processor is defined by the width of its\_\_\_\_\_.

- 1) : accumulator,accumulator
- 2) : data bus,accumulator
- 3) : accumulator, Address Bus
- 4) : accumulator,memory

Correct Option : 1 From : Lecture 2

Question # 17

\_\_\_\_\_does not hold data but holds the address of data

- 1) : Pointer, Segment, or Base Register
- 2) : Pointer, Index, or Base Register
- 3) : General Registers
- 4) : Instruction Pointer

Correct Option : 2 From : Lecture 2

Question # 18

“The program counter holds the address of the next instruction to be \_\_\_\_\_”

- 1) : executed.
- 2) : called
- 3) : deleted
- 4) : copy

Correct Option : 1 From : Lecture 2

Question # 19

There are \_\_\_\_\_ types of “instruction groups”

- 1) : 4
- 2) : 5
- 3) : 3
- 4) : 2

Correct Option : 1 From : Lecture 2

Question # 20

These instructions are used to move data from one place to another.

- 1) : TRUE
- 2) : FALSE
- 3) :
- 4) :

Correct Option : 1 From : Lecture 2

Question # 21

“mov” instruction is related to the \_\_\_\_\_ \*\*\*\*\*.

- 1) : Arithmetic and Logic Instructions
- 2) : Data Movement Instructions
- 3) : Program Control Instructions
- 4) : Special Instructions

Correct Option : 2 From : Lecture 2

Question # 22

\_\_\_\_\_ allow changing specific processor behaviors and are used to play with it.

- 1) : Special Instructions
- 2) : Data Movement Instructions
- 3) : Program Control Instructions
- 4) : Arithmetic and Logic Instructions

Correct Option : 1 From : Lecture 2

Question # 23

8088 is a 16bit processor with its accumulator and all registers of \_\_\_\_\_.

- 1) : 32 bits
- 2) : 6 bits
- 3) : 16 bits
- 4) : 64 bits

Correct Option : 3 From : Lecture 2

Question # 24

The \_\_\_\_\_ of a processor means the organization and functionalities of the registers it contains and the instructions that are valid on the processor.

- 1) : Manufactures
- 2) : architecture
- 3) : Deal
- 4) : None of the Given

Correct Option : 2 From : Lecture 2

Question # 25

Intel IAPX88 Architecture is \_\_\_\_\_.

- 1) : More then 25 old
- 2) : New
- 3) : Not Good
- 4) : None of the Given

Correct Option : 1 From : Lecture 2

Question # 26

The iAPX88 architecture consists of \_\_\_\_\_ registers.

- 1) : 13
- 2) : 12
- 3) : 9
- 4) : 14

Correct Option : 4 From : Lecture 3

Question # 27

General Registers are \_\_\_\_\_.

- 1) : AX, BX, CX, and DX
- 2) : XA, BX, CX, and DX
- 3) : SS,SI and DI
- 4) : 3

Correct Option : 1 From : Lecture 3

Question # 28

AX means we are referring to the extended 16bit "A" register. Its upper and lower byte are separately accessible as \_\_\_\_\_.

- 1) : AH and AL
- 2) : A Lower and A Upper
- 3) : AL, AU
- 4) : AX

Correct Option : 1 From : Lecture 3

Question # 29

AX is General purpose Register where A stands for \_\_\_\_\_.

- 1) : Acadmic
- 2) : Ado
- 3) : Architecture
- 4) : Accumulator

Correct Option : 4 From : Lecture 3

Question # 30

The B of BX stands for \_\_\_\_\_ because of its role in memory addressing.

- 1) : Busy
- 2) : Base
- 3) : Better
- 4) : None of the Given

Correct Option : 2 From : Lecture 3

Question # 31

The D of DX stands for Destination as it acts as the destination in \_\_\_\_\_.

- 1) : I/O operations
- 2) : operations
- 3) : memory cells
- 4) : Memory I/O operations

Correct Option : 1 From : Lecture 3

Question # 32

The C of CX stands for Counter as there are certain instructions that work with an automatic count in the \_\_\_\_\_.

- 1) : DI register
- 2) : BX register
- 3) : CX register
- 4) : DX register

Correct Option : 3 From : Lecture 3

Question # 33

\_\_\_\_\_ are the index registers of the Intel architecture which hold address of data and used in memory access.

- 1) : SI and SS
- 2) : PI and DI
- 3) : SI and IP
- 4) : SI and DI

Correct Option : 4 From : Lecture 3

Question # 34

In Intel IAPX88 architecture \_\_\_\_\_ is the special register containing the address of the next instruction to be executed.

- 1) : AX
- 2) : PI

3) : IP

4) : SI

Correct Option : 3 From : Lecture 3

Question # 35

SP is a memory pointer and is used indirectly by a set of \_\_\_\_\_.

1) : instructions

2) : Pointers

3) : Indexes

4) : Variables

Correct Option : 1 From : Lecture 3

Question # 36

\_\_\_\_\_ is also a memory pointer containing the address in a special area of memory called the stack.

1) : SP

2) : BP

3) : PB

4) : AC

Correct Option : 2 From : Lecture 3

Question # 37

\_\_\_\_\_ is bit wise significant and accordingly each bit is named separately.

1) : AX

2) : FS

3) : IP

4) : Flags Register

Correct Option : 4 From : Lecture 3

Question # 38

When two 16bit numbers are added the answer can be 17 bits long, this extra bit that won't fit in the target register is placed in the \_\_\_\_\_ where it can be used and tested

1) : carry flag

2) : Parity Flag

3) : Auxiliary Carry

4) : Zero Flag

Correct Option : 1 From : Lecture 3

Question # 39

Program is an ordered set of instructions for the processor.

1) : TRUE

2) : FALSE

3) :

4) :

Correct Option : 1 From : Lecture 3

Question # 40

For Intel Architecture "operation destination, source" is way of writing things.

1) : TRUE

2) : FALSE

3) :

4) :

Correct Option : 1 From : Lecture 3

Question # 41

Operation code " add ax, bx " \_\_\_\_\_.

- 1) : Add the bx to ax and change the bx
  - 2) : Add the ax to bx and change the ax
  - 3) : Add the bx to ax and change the ax
  - 4) : Add the bx to ax and change nothing
- Correct Option : 3 From : Lecture 3

Question # 42

The maximum memory iAPX88 can access is\_\_\_\_\_.

- 1) : 1MB
- 2) : 2MB
- 3) : 3MB
- 4) : 128MB

Correct Option : 1 From : Lecture 4

Question # 43

The maximum memory iAPX88 can access is 1MB which can be accessed with\_\_\_\_\_.

- 1) : 18 bits
- 2) : 20 bits
- 3) : 16 bits
- 4) : 2 bits

Correct Option : 2 From : Lecture 4

Question # 44

\_\_\_\_\_address of 1DED0 where the opcode B80500 is placed.

- 1) : physical memory
- 2) : memory
- 3) : effective
- 4) : None of the Given

Correct Option : 1 From : Lecture 4

Question # 45

16 bit of Segment and Offset Addresses can be converted to 20bit Address i.e Segment Address with lower four bits zero + Offset Address with \_\_\_\_\_ four bits zero = 20bit Physical Address

- 1) : Middle
- 2) : lower
- 3) : Top
- 4) : upper

Correct Option : 4 From : Lecture 4

Question # 46

When adding two 20bit Addresses a carry if generated is dropped without being stored anywhere and the phenomenon is called address\_\_\_\_\_.

- 1) : wraparound
- 2) : mode
- 3) : ping
- 4) : error

Correct Option : 1 From : Lecture 4

Question # 47

segments can only be defined a 16byte boundaries called \_\_\_\_\_ boundaries.

- 1) : segment
- 2) : paragraph
- 3) : Cell
- 4) : RAM

Correct Option : 1 From : Lecture 4

Question # 48

in a Program CS, DS, SS, and ES all had the same value in them. This is called

- 1) : equal memory
- 2) : overlapping segments
- 3) : segments hiding
- 4) : overlapping SI

Correct Option : 2 From : Lecture 4

Question # 49

"db num1" size of the memory is \_\_\_\_\_

- 1) : 1byte
- 2) : 4bit
- 3) : 16bit
- 4) : 2byte

Correct Option : 1 From : Lecture 5

Question # 50

- 1)-----[org 0x0100]
- 2)-----mov ax, [num1] ; load first number in ax
- 3)-----mov bx, [num2] ; load second number in bx
- 4)-----add ax, bx \_\_\_\_\_
- 5)-----int 0x21
- 6)-----
- 7)-----num1: dw 5
- 8)-----num2: dw 10

Comments for the 4 are :

- 1) : No comments Will be
- 2) : ; accumulate sum in add
- 3) : ; accumulate sum in ax
- 4) : ; accumulate sum in Bx

Correct Option : 3 From : Lecture 5

Question # 51

In "mov ax, bx" is \_\_\_\_\_ Addressing Modes.

- 1) : Immediate
- 2) : Indirect
- 3) : Direct
- 4) : Register

Correct Option : 4 From : Lecture 5

Question # 52

In "mov ax, [bx]" is \_\_\_\_\_ Addressing Modes

- 1) : Based Register Indirect
- 2) : Indirect
- 3) : Base Indirect
- 4) : Immediate

Correct Option : 1 From : Lecture 5

Question # 53

In "mov ax, 5" is \_\_\_\_\_ Addressing Modes

- 1) : Immediate
- 2) : Indirect

- 3) : Indirect
- 4) : Register

Correct Option : 1 From : Lecture 6

Question # 54

In " mov ax, [num1+bx] " is \_\_\_\_\_ ADDRESSING

- 1) : OFFSET+ Indirect
- 2) : Register + Direct
- 3) : Indirect + Reference
- 4) : BASEd REGISTER + OFFSET

Correct Option : 4 From : Lecture 7

Question # 55

"base + offset addressing " gives This number which came as the result of addition is called the \_\_\_\_\_.

- 1) : Address
- 2) : mode
- 3) : effective address
- 4) : Physical Address

Correct Option : 3 From : Lecture 7

Question # 56

"mov ax, [cs:bx]" associates \_\_\_\_\_ for this one instruction

- 1) : CS with BX
- 2) : BX with CS
- 3) : BX with AX
- 4) : None of the Given

Correct Option : 2 From : Lecture 7

Question # 57

For example

BX=0100

DS=FFF0

And Opcode are;

move [bx+0x0100], Ax

now what is the effective memory address;

- 1) : 0020
- 2) : 0200
- 3) : 0300
- 4) : 0x02

Correct Option : 2 From : Lecture 7

Question # 58

For example

BX=0100

DS=FFF0

And Opcode are;

move [bx+0x0100], Ax

now what is the physical memory address;

- 1) : 0020
- 2) : 0x0100
- 3) : 0x10100
- 4) : 0x100100

Correct Option : 2 From : Lecture 7

Question # 59

In "mov [1234], al" is \_\_\_\_\_ Addressing Modes.

- 1) : Immediate
- 2) : Indirect
- 3) : Direct
- 4) : Register

Correct Option : 3 From : Lecture 8

Question # 60

In "mov [SI], AX" is \_\_\_\_\_ Addressing Modes.

- 1) : Base Register Indirect
- 2) : Indirect
- 3) : Indexed Register Indirect
- 4) : Immediate

Correct Option : 3 From : Lecture 8

Question # 61

In "mov ax, [bx - Si]" is \_\_\_\_\_ ADDRESSING

- 1) : Base Register Indirect
- 2) : Indirect
- 3) : Direct
- 4) : illegal

Correct Option : 4 From : Lecture 8

Question # 62

In "mov ax, [BL]" there is error i.e. \_\_\_\_\_

- 1) : Address must be 16bit
- 2) : Address must be 8bit
- 3) : Address must be 4bit
- 4) : 8 bit to 16 bit move illegal

Correct Option : 4 From : Lecture 8

Question # 63

In "mov ax, [SI+DI]" there is error i.e. \_\_\_\_\_

- 1) : Two indexes can't use as Memory Address
- 2) : index can't use as Memory Address
- 3) : I don't Know
- 4) : None of the Given

Correct Option : 1 From : Lecture 8

Question # 64

In JNE and JNZ there is difference for only \_\_\_\_\_;

- 1) : Programmer or Logic
- 2) : Assembler
- 3) : Debugger
- 4) : IAPX88

Correct Option : 1 From : Lecture 9

Question # 65

JMP is Instruction that on executing take jump regardless of the state of all flags is called \_\_\_\_\_

- 1) : Jump
- 2) : Conditional jump
- 3) : Unconditional jump
- 4) : Stay

Correct Option : 3 From : Lecture 9

Question # 66



When result of the source subtraction from the destination is zero, zero flag is set i.e. ZF=1  
its mean that;

- 1) : DEST = SRC
- 2) : DEST != SRC
- 3) : DEST < SRC
- 4) : DEST > SRC

Correct Option : 1 From : Lecture 9

Question # 67

When an unsigned source is subtracted from an unsigned destination and the destination is smaller, borrow is needed which sets the \_\_\_\_\_.

- 1) : carry flag i.e CF = 0
- 2) : carry flag i.e CF = 1
- 3) : Carry Flag + ZF=1
- 4) : None of the Given

Correct Option : 2 From : Lecture 9

Question # 68

In the case of unassigned source and destination when subtracting and in the result ZF =1 OR CR=1 then \_\_\_\_\_

- 1) : DEST = SRC
- 2) : DEST != SRC
- 3) : UDEST ? USRC
- 4) : DEST > SRC

Correct Option : 3 From : Lecture 9

Question # 69

In the case of unassigned source and destination when subtracting and in the result ZF =0 AND CR=0 then \_\_\_\_\_

- 1) : DEST = SRC
- 2) : DEST != SRC
- 3) : UDEST < USRC
- 4) : UDEST > USRC

Correct Option : 4 From : Lecture 9

Question # 70

In the case of unassigned source and destination when subtracting and in the result CR=0 then \_\_\_\_\_

- 1) : DEST = SRC
- 2) : DEST != SRC
- 3) : UDEST < USRC
- 4) : UDEST ? USRC

Correct Option : 4 From : Lecture 9

Question # 71

\_\_\_\_\_This jump is taken if the last arithmetic operation produced a zero in its destination. After a CMP it is taken if both operands were equal.

- 1) : Jump if zero(JZ)/Jump if equal(JE)
- 2) : Jump if equal(JE)
- 3) : Jump if zero(JZ)
- 4) : No Jump fot This

Correct Option : 1 From : Lecture 9

Question # 72

\_\_\_\_\_This jump is taken after a CMP if the unsigned source is smaller than or equal to the unsigned destination.

- 1) : JBE(Jump if not below or equal)
- 2) : JNA(Jump if not above)/JBE(Jump if not below or equal)
- 3) : JNA(Jump if not above)
- 4) : No Jump for This

Correct Option : 2 From : Lecture 9

Question # 1

Numbers of any size can be added using a proper combination of \_\_\_\_\_.

- 1) : ADD and ADC
- 2) : ABD and ADC
- 3) : ADC and ADC
- 4) : None of the Given

Correct Option : 1 From : Lecture 11

Question # 2

Like addition with carry there is an instruction to subtract with borrows called \_\_\_\_\_.

- 1) : SwB
- 2) : SBB
- 3) : SBC
- 4) : SBBC

Correct Option : 2 From : Lecture 11

Question # 3

if "and ax, bx" instruction is given, There are \_\_\_\_\_ operations as a result

- 1) : 16 AND
- 2) : 17 AND
- 3) : 32 AND
- 4) : 8 AND

Correct Option : 1 From : Lecture 12

Question # 4

\_\_\_\_\_ can be used to check whether particular bits of a number are set or not.

- 1) : AND
- 2) : OR
- 3) : XOR
- 4) : NOT

Correct Option : 1 From : Lecture 12

Question # 5

\_\_\_\_\_ can also be used as a masking operation to invert selective bits.

- 1) : AND
- 2) : OR
- 3) : XOR
- 4) : NOT

Correct Option : 3 From : Lecture 12

Question # 6

Masking Operations are Selective Bit \_\_\_\_\_

- 1) : Clearing, XOR, Inversion and Testing
- 2) : Clearing, Setting, Inversion and Testing
- 3) : Clearing, XOR, AND and Testing
- 4) : None of the Given

Correct Option : 2 From : Lecture 12

Question # 7

The \_\_\_\_\_ instruction allows temporary diversion and therefore reusability of code.

- 1) : CALL

- 2) : RET
- 3) : AND
- 4) : XOR

Correct Option : 1 From : Lecture 13

Question # 8

CALL takes a label as \_\_\_\_\_ and execution starts from that label,

- 1) : argument
- 2) : Lable
- 3) : TXt
- 4) : Register

Correct Option : 1 From : Lecture 13

Question # 9

When the \_\_\_\_\_ instruction is encountered and it takes execution back to the instruction following the CALL.

- 1) : CALL
- 2) : RET
- 3) : AND
- 4) : XOR

Correct Option : 2 From : Lecture 13

Question # 10

\_\_\_\_\_ Both the instructions are commonly used as a pair, however technically they are independent in their operation.

- 1) : RET and ADC
- 2) : Cal and SSb
- 3) : CALL and RET
- 4) : ADC and SSB

Correct Option : 3 From : Lecture 13

Question # 11

The CALL mechanism breaks the thread of execution and does not change registers, except \_\_\_\_\_.

- 1) : SI
- 2) : IP
- 3) : DI
- 4) : SP

Correct Option : 2 From : Lecture 13

Question # 12

Stack is a \_\_\_\_\_ that behaves in a first in last out manner.

- 1) : Program
- 2) : data structure
- 3) : Heap
- 4) : None of the Given

Correct Option : 2 From : Lecture 14

Question # 13

If \_\_\_\_\_ is not available, stack clearing by the callee is a complicated process.

- 1) : CALL
- 2) : SBB
- 3) : RET n
- 4) : None of the Given

Correct Option : 3 From : Lecture 14

Question # 14

When the stack will eventually become full, SP will reach 0, and thereafter wraparound producing unexpected results. This is called stack \_\_\_\_\_

- 1) : Overflow
- 2) : Leakage
- 3) : Error
- 4) : Pointer

Correct Option : 1 From : Lecture 14

Question # 15

The pop operation makes a copy from the top of the stack into its \_\_\_\_\_.

- 1) : Register
- 2) : operand
- 3) : RET n
- 4) : Pointer

Correct Option : 2 From : Lecture 14

Question # 16

\_\_\_\_\_ decrements SP (the stack pointer) by two and then transfers a word from the source operand to the top of stack

- 1) : PUSH
- 2) : POP
- 3) : CALL
- 4) : RET

Correct Option : 1 From : Lecture 14

Question # 17

POP transfers the word at the current top of stack (pointed to by SP) to the destination operand and then \_\_\_\_\_ SP by two to point to the new top of stack.

- 1) : increments
- 2) : dcments
- 3) : ++
- 4) : --

Correct Option : 1 From : Lecture 14

Question # 18

The trick is to use the \_\_\_\_\_ and \_\_\_\_\_ operations and save the callers' value on the stack and recover it from there on return.

- 1) : POP, ADC
- 2) : CALL, RET
- 3) : CALL, RET n
- 4) : PUSH, POP

Correct Option : 4 From : Lecture 14

Question # 19

To access the arguments from the stack, the immediate idea that strikes is to \_\_\_\_\_ them off the stack.

- 1) : PUSH
- 2) : POP
- 3) : CALL
- 4) : Rrgister

Correct Option : 2 From : Lecture 15

Question # 20

push bp  
we are \_\_\_\_\_

- 1) : sending bp copy to stack
- 2) : making bp copy from stack
- 3) : pushing bp on the stack
- 4) : doing nothing

Correct Option : 3 From : Lecture 15

Question # 21

Local Variables means variables that are used within the \_\_\_\_\_

- 1) : Subroutine
- 2) : Program
- 3) : CALL
- 4) : Label

Correct Option : 1 From : Lecture 15

Question # 22

Standard ASCII has 128 characters with assigned numbers from \_\_\_\_\_.

- 1) : 1 to 129
- 2) : 0 to 127
- 3) : 0 to 128
- 4) : None of the Given

Correct Option : 2 From : Lecture 16

Question # 23

When \_\_\_\_\_ is sent to the VGA card, it will turn pixels on and off in such a way that a visual representation of 'A' appears on the screen.

- 1) : 0x60
- 2) : 0x90
- 3) : 0x30
- 4) : 0x40

Correct Option : 4 From : Lecture 16

Question # 24

Which bit is refer to the Blinking of foreground character

- 1) : 6
- 2) : 7
- 3) : 5
- 4) : 3

Correct Option : 2 From : Lecture 16

Question # 25

Which bit is refer to the Intensity component of foreground color

- 1) : 4
- 2) : 5
- 3) : 3
- 4) : 7

Correct Option : 3 From : Lecture 16

Question # 26

Which bit is refer to the Green component of background color

- 1) : 1
- 2) : 5
- 3) : 3
- 4) : 7

Correct Option : 2 From : Lecture 16

Question # 27

Which bit is refer to the Green component of foreground color

- 1) : 1
- 2) : 5
- 3) : 3
- 4) : 7

Correct Option : 1 From : Lecture 16

Question # 28

String can be indicate bye given

- 1) : db 0x61, 0x61, 0x63
- 2) : db 'a', 'b', 'c'
- 3) : db 'abc'
- 4) : All of the above

Correct Option : 4 From : Lecture 16

Question # 29

The first form divides a 32bit number in DX:AX by its 16bit operand and stores the \_\_\_\_\_ quotient in AX

- 1) : 16bit
- 2) : 17bit
- 3) : 32bit
- 4) : 64bit

Correct Option : 1 From : Lecture 17

Question # 30

The \_\_\_\_\_ (division) used in the process is integer division and not floating point division.

- 1) : DIV instruction
- 2) : ADC instruction
- 3) : SSB instruction
- 4) : DIVI instruction

Correct Option : 1 From : Lecture 17

Question # 31

\_\_\_\_\_ (multiply) performs an unsigned multiplication of the source operand and the accumulator.

- 1) : Multi
- 2) : DIV
- 3) : MUL
- 4) : Move

Correct Option : 3 From : Lecture 18

Question # 32

The desired location on the screen can be calculated with the following formulae.

- 1) : location = ( hypos \* 80 + SP ) \* 3
- 2) : location = ( hypos \* 80 + slocation ) \* 2
- 3) : location = ( hypos \* 80 + epos ) \* 2
- 4) : None of the Given

Correct Option : 3 From : Lecture 18

Question # 33

To play with string there are 5 instructions that are \_\_\_\_\_

- 1) : STOS, LODS, CMPS, SCAS, and MOVS
- 2) : MUL, DIV, ADD, ADC and MOVE
- 3) : SSB, ADD, CMPS, ADC, and MOVS
- 4) : None of the Given

Correct Option : 1 From : Lecture 18

Question # 34

\_\_\_\_\_ transfers a byte or word from register AL or AX to the string element addressed by ES:DI and updates DI to point to the next location.

- 1) : LODS
- 2) : STOS
- 3) : SCAS
- 4) : MOVE

Correct Option : 2 From : Lecture 18

Question # 35

\_\_\_\_\_ transfers a byte or word from the source location DS:SI to AL or AX and updates SI to point to the next location.

- 1) : LODS
- 2) : STOS
- 3) : SCAS
- 4) : MOVE

Correct Option : 1 From : Lecture 18

Question # 36

\_\_\_\_\_ compares a source byte or word in register AL or AX with the destination string element addressed by ES: DI and updates the flags.

- 1) : LODS
- 2) : STOS
- 3) : SCAS
- 4) : MOVE

Correct Option : 3 From : Lecture 18

Question # 37

\_\_\_\_\_ repeat the following string instruction while the zero flag is set and REPNE or REPNZ repeat the following instruction while the zero flag is not set.

- 1) : REP or REPZ
- 2) : REPE or REPZ
- 3) : REPE or RPZ
- 4) : RPE or REPZ

Correct Option : 2 From : Lecture 18

Question # 38

LES loads \_\_\_\_\_

- 1) : ES
- 2) : DS
- 3) : PS
- 4) : LS

Correct Option : 1 From : Lecture 20

Question # 39

LDS loads \_\_\_\_\_.

- 1) : ES
- 2) : DS
- 3) : PS
- 4) : LS

Correct Option : 2 From : Lecture 20

Question # 40

REP allows the instruction to be repeated \_\_\_\_\_ times allowing blocks of memory to be copied.

- 1) : DX
- 2) : CX
- 3) : BX
- 4) : AX

Correct Option : 2 From : Lecture 20

Question # 41

\_\_\_\_\_ pops IP, then CS, and then FLAGS.

- 1) : Ret n
- 2) : REZA
- 3) : REPE
- 4) : IRET

Correct Option : 4 From : Lecture 21

Question # 42

\_\_\_\_\_, Trap, Single step Interrupt

- 1) : INT 0
- 2) : INT 1
- 3) : INT 3
- 4) : INT 0

Correct Option : 2 From : Lecture 21

Question # 43

\_\_\_\_\_, NMI-Non Maskable Interrupt

- 1) : INT 0
- 2) : INT 1
- 3) : INT 3
- 4) : INT 0

Correct Option : 3 From : Lecture 21

Question # 44

To hook an interrupt we change the \_\_\_\_\_ corresponding to that interrupt.

- 1) : SX
- 2) : vector
- 3) : AX
- 4) : BX

Correct Option : 2 From : Lecture 22

Question # 1

\_\_\_\_\_ pops IP, then CS, and then FLAGS.

- 1) : Ret n
- 2) : REZA
- 3) : REPE
- 4) : IRET

Correct Option : 4 From : Lecture 21

Question # 2

\_\_\_\_\_, Trap, Single step Interrupt

- 1) : INT 0
- 2) : INT 1
- 3) : INT 3
- 4) : INT 0

Correct Option : 2 From : Lecture 21

Question # 3

\_\_\_\_\_, NMI-Non Maskable Interrupt

- 1) : INT 0



- 2) : INT 1
  - 3) : INT 3
  - 4) : INT 0
- Correct Option : 3 From : Lecture 21

**Question # 4**

To hook an interrupt we change the \_\_\_\_\_ corresponding to that interrupt.

- 1) : SX
- 2) : vector
- 3) : AX
- 4) : BX

---

**Question # 1**

There are three busses to communicate the processor and memory named as \_\_\_\_\_

- 1) : address bus.,data bus and data bus.
- 2) : addressing bus.,data bus and data bus.
- 3) : address bus.,datamove bus and data bus.
- 4) : address bus.,data bus and control bus..

Correct Option : 4 From : Lecture 1

**Question # 2**

The address bus is unidirectional and address always travels from processor to memory.

- 1) : TRUE
- 2) : FALSE
- 3) :
- 4) :

Correct Option : 1 From : Lecture 1

**Question # 3**

Data bus is bidirectional because \_\_\_\_\_

- 1) : To way
- 2) : Data moves from both, processor to memory and memory to processor,

- 3) : Data moves from both, processor to memory and memory to data Bus,  
4) : None of the Given  
Correct Option : 3 From : Lecture 1

Question # 4

Control bus \_\_\_\_\_

- 1) : is Not Important.  
2) : is Important .  
3) : bidirectional.  
4) : unidirectional .

Correct Option : 3 From : Lecture 1

Question # 5

A memory cell is an n-bit location to store data, normally \_\_\_\_\_ also called a byte

- 1) : 4-bit  
2) : 8-bit  
3) : 6-bit  
4) : 80-bit

Correct Option : 2 From : Lecture 1

Question # 6

The number of bits in a cell is called the cell width. \_\_\_\_\_  
define the memory completely.

- 1) : Cell width and number of cells,  
2) : cell number and width of the cells,  
3) : width  
4) : Height

Correct Option : 1 From : Lecture 1

Question # 7

for memory we define two dimensions. The first dimension defines how many \_\_\_\_\_ bits are there in a single memory cell.

- 1) : parallel  
2) : Vertical  
3) : long  
4) : short

Correct Option : 1 From : Lecture 1

Question # 8

\_\_\_\_\_ operation requires the same size of data bus and memory cell width.

- 1) : Normal  
2) : Best and simplest  
3) : first  
4) : None of the Given

Correct Option : 2 From : Lecture 1

Question # 9

Control bus is only the mechanism. The responsibility of sending the appropriate signals on the control bus to the memory is of the \_\_\_\_\_.

- 1) : Data Bus  
2) : processor  
3) : Address Bus  
4) : None of the Given

Correct Option : 2 From : Lecture 1

Question # 10

In "total: dw 0" Opcode total is a \_\_\_\_\_

- 1) : Literal
- 2) : Variable
- 3) : Label
- 4) : Starting point

Correct Option : 3 From : Lecture 10

Question # 11

| 0 | --> | 1 | 1 | 0 | 1 | 0 | 0 | 0 | --> | C | is a example of \_\_\_\_\_

- 1) : Shl
- 2) : sar
- 3) : Shr
- 4) : Sal

Correct Option : 3 From : Lecture 10

Question # 12

| C | <-- | 1 | 1 | 0 | 1 | 0 | 0 | 0 | <-- | 0 | is a example of \_\_\_\_\_

- 1) : Shl
- 2) : sar
- 3) : Shr
- 4) : Sal

Correct Option : 1 From : Lecture 10

Question # 13

ADC has \_\_\_\_\_ operands.

- 1) : two
- 2) : three
- 3) : Five
- 4) : Zero

Correct Option : 2 From : Lecture 10

Question # 14

The basic purpose of a computer is to perform operations, and operations need \_\_\_\_\_.

- 1) : order
- 2) : nothing
- 3) : operands
- 4) : bit

Correct Option : 3 From : Lecture 2

Question # 15

Registers are like a scratch pad ram inside the processor and their operation is very much like normal \_\_\_\_\_.

- 1) : Number
- 2) : operations
- 3) : memory cells
- 4) : None of the Given

Correct Option : 3 From : Lecture 2

Question # 16

There is a central register in every processor called the \_\_\_\_\_ and The word size of a processor is defined by the width of its \_\_\_\_\_.

- 1) : accumulator, accumulator
- 2) : data bus, accumulator
- 3) : accumulator, Address Bus
- 4) : accumulator, memory

Correct Option : 1 From : Lecture 2

Question # 17

\_\_\_\_\_ does not hold data but holds the address of data

- 1) : Pointer, Segment, or Base Register
- 2) : Pointer, Index, or Base Register
- 3) : General Registers
- 4) : Instruction Pointer

Correct Option : 2 From : Lecture 2

Question # 18

“The program counter holds the address of the next instruction to be \_\_\_\_\_”

- 1) : executed.
- 2) : called
- 3) : deleted
- 4) : copy

Correct Option : 1 From : Lecture 2

Question # 19

There are \_\_\_\_\_ types of “instruction groups”

- 1) : 4
- 2) : 5
- 3) : 3
- 4) : 2

Correct Option : 1 From : Lecture 2

Question # 20

These instructions are used to move data from one place to another.

- 1) : TRUE
- 2) : FALSE
- 3) :
- 4) :

Correct Option : 1 From : Lecture 2

Question # 21

“mov” instruction is related to the \_\_\_\_\_ Group.

- 1) : Arithmetic and Logic Instructions
- 2) : Data Movement Instructions
- 3) : Program Control Instructions
- 4) : Special Instructions

Correct Option : 2 From : Lecture 2

Question # 22

\_\_\_\_\_ allow changing specific processor behaviors and are used to play with it.

- 1) : Special Instructions
- 2) : Data Movement Instructions
- 3) : Program Control Instructions
- 4) : Arithmetic and Logic Instructions

Correct Option : 1 From : Lecture 2

Question # 23

8088 is a 16bit processor with its accumulator and all registers of \_\_\_\_\_.

- 1) : 32 bits
- 2) : 6 bits
- 3) : 16 bits
- 4) : 64 bits

Correct Option : 3 From : Lecture 2

Question # 24

The \_\_\_\_\_ of a processor means the organization and functionalities of the registers it contains and the instructions that are valid on the processor.

- 1) : Manufactures
- 2) : architecture
- 3) : Deal
- 4) : None of the Given

Correct Option : 2 From : Lecture 2

Question # 25

Intel IAPX88 Architecture is \_\_\_\_\_

- 1) : More then 25 old
- 2) : New
- 3) : Not Good
- 4) : None of the Given

Correct Option : 1 From : Lecture 2

Question # 26

The iAPX88 architecture consists of \_\_\_\_\_ registers.

- 1) : 13
- 2) : 12
- 3) : 9
- 4) : 14

Correct Option : 4 From : Lecture 3

Question # 27

General Registers are \_\_\_\_\_

- 1) : AX, BX, CX, and DX
- 2) : XA, BX, CX, and DX
- 3) : SS,SI and DI
- 4) : 3

Correct Option : 1 From : Lecture 3

Question # 28

AX means we are referring to the extended 16bit "A" register. Its upper and lower byte are separately accessible as \_\_\_\_\_.

- 1) : AH and AL
- 2) : A Lower and A Upper
- 3) : AL, AU
- 4) : AX

Correct Option : 1 From : Lecture 3

Question # 29

AX is General purpose Register where A stands for \_\_\_\_\_.

- 1) : Acadmic
- 2) : Ado
- 3) : Architecture
- 4) : Accumulator

Correct Option : 4 From : Lecture 3

Question # 30

The B of BX stands for \_\_\_\_\_ because of its role in memory addressing.

- 1) : Busy
- 2) : Base
- 3) : Better
- 4) : None of the Given

Correct Option : 2 From : Lecture 3

Question # 31

The D of DX stands for Destination as it acts as the destination in \_\_\_\_\_.

- 1) : I/O operations
- 2) : operations
- 3) : memory cells
- 4) : Memory I/O operations

Correct Option : 1 From : Lecture 3

Question # 32

The C of CX stands for Counter as there are certain instructions that work with an automatic count in the \_\_\_\_\_.

- 1) : DI register
- 2) : BX register
- 3) : CX register
- 4) : DX register

Correct Option : 3 From : Lecture 3

Question # 33

\_\_\_\_\_ are the index registers of the Intel architecture which hold address of data and used in memory access.

- 1) : SI and SS
- 2) : PI and DI
- 3) : SI and IP
- 4) : SI and DI

Correct Option : 4 From : Lecture 3

Question # 34

In Intel IAPX88 architecture \_\_\_\_\_ is the special register containing the address of the next instruction to be executed.

- 1) : AX
- 2) : PI
- 3) : IP
- 4) : SI

Correct Option : 3 From : Lecture 3

Question # 35

SP is a memory pointer and is used indirectly by a set of \_\_\_\_\_.

- 1) : instructions
- 2) : Pointers
- 3) : Indexes
- 4) : Variables

Correct Option : 1 From : Lecture 3

Question # 36

\_\_\_\_\_ is also a memory pointer containing the address in a special area of memory called the stack.

- 1) : SP
- 2) : BP
- 3) : PB
- 4) : AC

Correct Option : 2 From : Lecture 3

Question # 37

\_\_\_\_\_ is bit wise significant and accordingly each bit is named

separately.

- 1) : AX
- 2) : FS
- 3) : IP
- 4) : Flags Register

Correct Option : 4 From : Lecture 3

Question # 38

When two 16bit numbers are added the answer can be 17 bits long, this extra bit that won't fit in the target register is placed in the \_\_\_\_\_ where it can be used and tested

- 1) : carry flag
- 2) : Parity Flag
- 3) : Auxiliary Carry
- 4) : Zero Flag

Correct Option : 1 From : Lecture 3

Question # 39

Program is an ordered set of instructions for the processor.

- 1) : TRUE
- 2) : FALSE
- 3) :
- 4) :

Correct Option : 1 From : Lecture 3

Question # 40

For Intel Architecture "operation destination, source" is way of writing things.

- 1) : TRUE
- 2) : FALSE
- 3) :
- 4) :

Correct Option : 1 From : Lecture 3

Question # 41

Operation code " add ax, bx " \_\_\_\_\_.

- 1) : Add the bx to ax and change the bx
- 2) : Add the ax to bx and change the ax
- 3) : Add the bx to ax and change the ax
- 4) : Add the bx to ax and change nothing

Correct Option : 3 From : Lecture 3

Question # 42

The maximum memory iAPX88 can access is \_\_\_\_\_.

- 1) : 1MB
- 2) : 2MB
- 3) : 3MB
- 4) : 128MB

Correct Option : 1 From : Lecture 4

Question # 43

The maximum memory iAPX88 can access is 1MB which can be accessed with \_\_\_\_\_.

- 1) : 18 bits
- 2) : 20 bits
- 3) : 16 bits
- 4) : 2 bits

Correct Option : 2 From : Lecture 4

Question # 44

\_\_\_\_\_ address of 1DED0 where the opcode B80500 is placed.

- 1) : physical memory
- 2) : memory
- 3) : effective
- 4) : None of the Given

Correct Option : 1 From : Lecture 4

Question # 45

16 bit of Segment and Offset Addresses can be converted to 20bit Address i.e Segment Address with lower four bits zero + Offset Address with \_\_\_\_\_ four bits zero = 20bit Physical Address

- 1) : Middle
- 2) : lower
- 3) : Top
- 4) : upper

Correct Option : 4 From : Lecture 4

Question # 46

When adding two 20bit Addresses a carry if generated is dropped without being stored anywhere and the phenomenon is called address\_\_\_\_\_.

- 1) : wraparound
- 2) : mode
- 3) : ping
- 4) : error

Correct Option : 1 From : Lecture 4

Question # 47

segments can only be defined a 16byte boundaries called \_\_\_\_\_ boundaries.

- 1) : segment
- 2) : paragraph
- 3) : Cell
- 4) : RAM

Correct Option : 1 From : Lecture 4

Question # 48

in a Program CS, DS, SS, and ES all had the same value in them. This is called \_\_\_\_\_.

- 1) : equal memory
- 2) : overlapping segments
- 3) : segments hiding
- 4) : overlapping SI

Correct Option : 2 From : Lecture 4

Question # 49

"db num1" size of the memory is \_\_\_\_\_

- 1) : 1byte
- 2) : 4bit
- 3) : 16bit
- 4) : 2byte

Correct Option : 1 From : Lecture 5

Question # 50

1-----[org 0x0100]

2-----mov ax, [num1] ; load first number in ax

3-----mov bx, [num2] ; load second number in bx



4-----add ax, bx \_\_\_\_\_  
5-----int 0x21  
6-----  
7-----num1: dw 5  
8-----num2: dw 10

Comments for the 4 are :

- 1) : No comments Will be
  - 2) : ; accumulate sum in add
  - 3) : ; accumulate sum in ax
  - 4) : ; accumulate sum in Bx
- Correct Option : 3 From : Lecture 5

Question # 51

In " mov ax, bx " is \_\_\_\_\_ Addressing Modes.

- 1) : Immediate
- 2) : Indirect
- 3) : Direct
- 4) : Register

Correct Option : 4 From : Lecture 5

Question # 52

In "mov ax, [bx] " is \_\_\_\_\_ Addressing Modes

- 1) : Based Register Indirect
- 2) : Indirect
- 3) : Base Indirect
- 4) : Immediate

Correct Option : 1 From : Lecture 5

Question # 53

In "mov ax, 5 " is \_\_\_\_\_ Addressing Modes

- 1) : Immediate
- 2) : Indirect
- 3) : Indirect
- 4) : Register

Correct Option : 1 From : Lecture 6

Question # 54

In " mov ax, [num1+bx] " is \_\_\_\_\_ ADDRESSING

- 1) : OFFSET+ Indirect
- 2) : Register + Direct
- 3) : Indirect + Reference
- 4) : BASEd REGISTER + OFFSET

Correct Option : 4 From : Lecture 7

Question # 55

"base + offset addressing " gives This number which came as the result of addition is called the \_\_\_\_\_.

- 1) : Address
- 2) : mode
- 3) : effective address
- 4) : Physical Address

Correct Option : 3 From : Lecture 7

Question # 56

"mov ax, [cs:bx]" associates \_\_\_\_\_ for this one instruction

- 1) : CS with BX
- 2) : BX with CS
- 3) : BX with AX
- 4) : None of the Given

Correct Option : 2 From : Lecture 7

Question # 57

For example

BX=0100

DS=FFF0

And Opcode are;

move [bx+0x0100], Ax

now what is the effective memory address;

- 1) : 0020
- 2) : 0200
- 3) : 0300
- 4) : 0x02

Correct Option : 2 From : Lecture 7

Question # 58

For example

BX=0100

DS=FFF0

And Opcode are;

move [bx+0x0100], Ax

now what is the physical memory address;

- 1) : 0020
- 2) : 0x0100
- 3) : 0x10100
- 4) : 0x100100

Correct Option : 2 From : Lecture 7

Question # 59

In " mov [1234], al " is \_\_\_\_\_ Addressing Modes.

- 1) : Immediate
- 2) : Indirect
- 3) : Direct
- 4) : Register

Correct Option : 3 From : Lecture 8

Question # 60

In " mov [SI], AX " is \_\_\_\_\_ Addressing Modes.

- 1) : Base Register Indirect
- 2) : Indirect
- 3) : Indexed Register Indirect
- 4) : Immediate

Correct Option : 3 From : Lecture 8

Question # 61

In " mov ax, [bx - Si] " is \_\_\_\_\_ ADDRESSING

- 1) : Base Register Indirect
- 2) : Indirect
- 3) : Direct
- 4) : illegal

Correct Option : 4 From : Lecture 8

Question # 62

In " mov ax, [BL] " there is error i.e. \_\_\_\_\_

- 1) : Address must be 16bit
- 2) : Address must be 8bit
- 3) : Address must be 4bit
- 4) : 8 bit to 16 bit move illegal

Correct Option : 4 From : Lecture 8

Question # 63

In " mov ax, [SI+DI] " there is error i.e. \_\_\_\_\_

- 1) : Two indexes can't use as Memory Address
- 2) : index can't use as Memory Address
- 3) : I don't Know
- 4) : None of the Given

Correct Option : 1 From : Lecture 8

Question # 64

In JNE and JNZ there is difference for only \_\_\_\_\_;

- 1) : Programmer or Logic
- 2) : Assembler
- 3) : Debugger
- 4) : IAPX88

Correct Option : 1 From : Lecture 9

Question # 65

JMP is Instruction that on executing take jump regardless of the state of all flags is called \_\_\_\_\_

- 1) : Jump
- 2) : Conditional jump
- 3) : Unconditional jump
- 4) : Stay

Correct Option : 3 From : Lecture 9

Question # 66

When result of the source subtraction from the destination is zero, zero flag is set i.e. ZF=1 its mean that;

- 1) : DEST = SRC
- 2) : DEST != SRC
- 3) : DEST < SRC
- 4) : DEST > SRC

Correct Option : 1 From : Lecture 9

Question # 67

When an unsigned source is subtracted from an unsigned destination and the destination is smaller, borrow is needed which sets the \_\_\_\_\_.

- 1) : carry flag i.e CF = 0
- 2) : carry flag i.e CF = 1
- 3) : Carry Flag + ZF=1
- 4) : None of the Given

Correct Option : 2 From : Lecture 9

Question # 68

In the case of unassigned source and destination when subtracting and in the result ZF =1 OR CR=1 then \_\_\_\_\_

- 1) : DEST = SRC
- 2) : DEST != SRC
- 3) : UDEST ? USRC

4) : DEST > SRC

Correct Option : 3 From : Lecture 9

Question # 69

In the case of unassigned source and destination when subtracting and in the result ZF =0 AND CR=0 then \_\_\_\_\_

- 1) : DEST = SRC
- 2) : DEST != SRC
- 3) : UDEST < USRC
- 4) : UDEST > USRC

Correct Option : 4 From : Lecture 9

Question # 70

In the case of unassigned source and destination when subtracting and in the result CR=0 then \_\_\_\_\_

- 1) : DEST = SRC
- 2) : DEST != SRC
- 3) : UDEST < USRC
- 4) : UDEST ? USRC

Correct Option : 4 From : Lecture 9

Question # 71

\_\_\_\_\_ This jump is taken if the last arithmetic operation produced a zero in its destination. After a CMP it is taken if both operands were equal.

- 1) : Jump if zero(JZ)/Jump if equal(JE)
- 2) : Jump if equal(JE)
- 3) : Jump if zero(JZ)
- 4) : No Jump for This

Correct Option : 1 From : Lecture 9

Question # 72

\_\_\_\_\_ This jump is taken after a CMP if the unsigned source is smaller than or equal to the unsigned destination.

- 1) : JBE(Jump if not below or equal)
- 2) : JNA(Jump if not above)/JBE(Jump if not below or equal)
- 3) : JNA(Jump if not above)
- 4) : No Jump for This

Correct Option : 2 From : Lecture 9

Question # 73

Numbers of any size can be added using a proper combination of \_\_\_\_\_.

- 1) : ADD and ADC
- 2) : ABD and ADC
- 3) : ADC and ADC
- 4) : None of the Given

Correct Option : 1 From : Lecture 11

Question # 74

Like addition with carry there is an instruction to subtract with borrows called \_\_\_\_\_.

- 1) : SwB
- 2) : SBB
- 3) : SBC
- 4) : SBBC

Correct Option : 2 From : Lecture 11

Question # 75

if "and ax, bx" instruction is given, There are \_\_\_\_\_ operations as a result

- 1) : 16 AND
- 2) : 17 AND
- 3) : 32 AND
- 4) : 8 AND

Correct Option : 1 From : Lecture 12

Question # 76

\_\_\_\_\_ can be used to check whether particular bits of a number are set or not.

- 1) : AND
- 2) : OR
- 3) : XOR
- 4) : NOT

Correct Option : 1 From : Lecture 12

Question # 77

\_\_\_\_\_ can also be used as a masking operation to invert selective bits.

- 1) : AND
- 2) : OR
- 3) : XOR
- 4) : NOT

Correct Option : 3 From : Lecture 12

Question # 78

Masking Operations are Selective Bit \_\_\_\_\_

- 1) : Clearing, XOR, Inversion and Testing
- 2) : Clearing, Setting, Inversion and Testing
- 3) : Clearing, XOR, AND and Testing
- 4) : None of the Given

Correct Option : 2 From : Lecture 12

Question # 79

The \_\_\_\_\_ instruction allows temporary diversion and therefore reusability of code.

- 1) : CALL
- 2) : RET
- 3) : AND
- 4) : XOR

Correct Option : 1 From : Lecture 13

Question # 80

CALL takes a label as \_\_\_\_\_ and execution starts from that label,

- 1) : argument
- 2) : Lable
- 3) : TXt
- 4) : Register

Correct Option : 1 From : Lecture 13

Question # 81

When the \_\_\_\_\_ instruction is encountered and it takes execution back to the instruction following the CALL.

- 1) : CALL
- 2) : RET
- 3) : AND
- 4) : XOR

Correct Option : 2 From : Lecture 13

Question # 82

\_\_\_\_\_ Both the instructions are commonly used as a pair, however technically they are independent in their operation.

- 1) : RET and ADC
- 2) : Cal and SSb
- 3) : CALL and RET
- 4) : ADC and SSB

Correct Option : 3 From : Lecture 13

Question # 83

The CALL mechanism breaks the thread of execution and does not change registers, except \_\_\_\_\_.

- 1) : SI
- 2) : IP
- 3) : DI
- 4) : SP

Correct Option : 2 From : Lecture 13

Question # 84

Stack is a \_\_\_\_\_ that behaves in a first in last out manner.

- 1) : Program
- 2) : data structure
- 3) : Heap
- 4) : None of the Given

Correct Option : 2 From : Lecture 14

Question # 85

If \_\_\_\_\_ is not available, stack clearing by the callee is a complicated process.

- 1) : CALL
- 2) : SBB
- 3) : RET n
- 4) : None of the Given

Correct Option : 3 From : Lecture 14

Question # 86

When the stack will eventually become full, SP will reach 0, and thereafter wraparound producing unexpected results. This is called stack \_\_\_\_\_

- 1) : Overflow
- 2) : Leakage
- 3) : Error
- 4) : Pointer

Correct Option : 1 From : Lecture 14

Question # 87

The pop operation makes a copy from the top of the stack into its \_\_\_\_\_.

- 1) : Register
- 2) : operand
- 3) : RET n
- 4) : Pointer

Correct Option : 2 From : Lecture 14

Question # 88

\_\_\_\_\_ decrements SP (the stack pointer) by two and then transfers a word from the source operand to the top of stack

- 1) : PUSH
- 2) : POP
- 3) : CALL
- 4) : RET

Correct Option : 1 From : Lecture 14

Question # 89

POP transfers the word at the current top of stack (pointed to by SP) to the destination operand and then \_\_\_\_\_ SP by two to point to the new top of stack.

- 1) : increments
- 2) : decrements
- 3) : ++
- 4) : --

Correct Option : 1 From : Lecture 14

Question # 90

The trick is to use the \_\_\_\_\_ and \_\_\_\_\_ operations and save the callers' value on the stack and recover it from there on return.

- 1) : POP, ADC
- 2) : CALL, RET
- 3) : CALL, RET n
- 4) : PUSH, POP

Correct Option : 4 From : Lecture 14

Question # 91

To access the arguments from the stack, the immediate idea that strikes is to \_\_\_\_\_ them off the stack.

- 1) : PUSH
- 2) : POP
- 3) : CALL
- 4) : Rregister

Correct Option : 2 From : Lecture 15

Question # 92

push bp

we are \_\_\_\_\_

- 1) : sending bp copy to stack
- 2) : making bp copy from stack
- 3) : pushing bp on the stack
- 4) : doing nothing

Correct Option : 3 From : Lecture 15

Question # 93

Local Variables means variables that are used within the \_\_\_\_\_

- 1) : Subroutine
- 2) : Program
- 3) : CALL
- 4) : Label

Correct Option : 1 From : Lecture 15

Question # 94

Standard ASCII has 128 characters with assigned numbers from \_\_\_\_\_.

- 1) : 1 to 129
- 2) : 0 to 127
- 3) : 0 to 128
- 4) : None of the Given

Correct Option : 2 From : Lecture 16

Question # 95

When \_\_\_\_\_ is sent to the VGA card, it will turn pixels on and off in such a way that a visual representation of 'A' appears on the screen.

- 1) : 0x60
- 2) : 0x90
- 3) : 0x30
- 4) : 0x40

Correct Option : 4 From : Lecture 16

Question # 96

Which bit is refer to the Blinking of foreground character

- 1) : 6
- 2) : 7
- 3) : 5
- 4) : 3

Correct Option : 2 From : Lecture 16

Question # 97

Which bit is refer to the Intensity component of foreground color

- 1) : 4
- 2) : 5
- 3) : 3
- 4) : 7

Correct Option : 3 From : Lecture 16

Question # 98

Which bit is refer to the Green component of background color

- 1) : 1
- 2) : 5
- 3) : 3
- 4) : 7

Correct Option : 2 From : Lecture 16

Question # 99

Which bit is refer to the Green component of foreground color

- 1) : 1
- 2) : 5
- 3) : 3
- 4) : 7

Correct Option : 1 From : Lecture 16

Question # 100

String can be indicate bye given

- 1) : db 0x61, 0x61, 0x63
- 2) : db 'a', 'b', 'c'
- 3) : db 'abc'
- 4) : All of the above

Correct Option : 4 From : Lecture 16

Question # 101

The first form divides a 32bit number in DX:AX by its 16bit operand and stores the \_\_\_\_\_ quotient in AX

- 1) : 16bit
- 2) : 17bit
- 3) : 32bit



4) : 64bit  
Correct Option : 1 From : Lecture 17

Question # 102

The \_\_\_\_\_ (division) used in the process is integer division and not floating point division.

- 1) : DIV instruction
- 2) : ADC instruction
- 3) : SSB instruction
- 4) : DIVI instruction

Correct Option : 1 From : Lecture 17

Question # 103

\_\_\_\_\_ (multiply) performs an unsigned multiplication of the source operand and the accumulator.

- 1) : Multi
- 2) : DIV
- 3) : MUL
- 4) : Move

Correct Option : 3 From : Lecture 18

Question # 104

The desired location on the screen can be calculated with the following formulae.

- 1) :  $\text{location} = (\text{hypos} * 80 + \text{SP}) * 3$
- 2) :  $\text{location} = (\text{hypos} * 80 + \text{slocation}) * 2$
- 3) :  $\text{location} = (\text{hypos} * 80 + \text{epos}) * 2$
- 4) : None of the Given

Correct Option : 3 From : Lecture 18

Question # 105

To play with string there are 5 instructions that are \_\_\_\_\_

- 1) : STOS, LODS, CMPS, SCAS, and MOVS
- 2) : MUL, DIV, ADD, ADC and MOVE
- 3) : SSB, ADD, CMPS, ADC, and MOVS
- 4) : None of the Given

Correct Option : 1 From : Lecture 18

Question # 106

\_\_\_\_\_ transfers a byte or word from register AL or AX to the string element addressed by ES:DI and updates DI to point to the next location.

- 1) : LODS
- 2) : STOS
- 3) : SCAS
- 4) : MOVE

Correct Option : 2 From : Lecture 18

Question # 107

\_\_\_\_\_ transfers a byte or word from the source location DS:SI to AL or AX and updates SI to point to the next location.

- 1) : LODS
- 2) : STOS
- 3) : SCAS
- 4) : MOVE

Correct Option : 1 From : Lecture 18

Question # 108

\_\_\_\_\_ compares a source byte or word in register AL or AX with the destination string element addressed by ES: DI and updates the flags.

- 1) : LODS
- 2) : STOS
- 3) : SCAS
- 4) : MOVE

Correct Option : 3 From : Lecture 18

Question # 109

\_\_\_\_\_ repeat the following string instruction while the zero flag is set and REPNE or REPNZ repeat the following instruction while the zero flag is not set.

- 1) : REP or REPZ
- 2) : REPE or REPZ
- 3) : REPE or RPZ
- 4) : RPE or REPZ

Correct Option : 2 From : Lecture 18

Question # 110

LES loads \_\_\_\_\_

- 1) : ES
- 2) : DS
- 3) : PS
- 4) : LS

Correct Option : 1 From : Lecture 20

Question # 111

LDS loads\_\_\_\_\_.

- 1) : ES
- 2) : DS
- 3) : PS
- 4) : LS

Correct Option : 2 From : Lecture 20

Question # 112

REP allows the instruction to be repeated \_\_\_\_\_ times allowing blocks of memory to be copied.

- 1) : DX
- 2) : CX
- 3) : BX
- 4) : AX

Correct Option : 2 From : Lecture 20

Question # 113

\_\_\_\_\_ pops IP, then CS, and then FLAGS.

- 1) : Ret n
- 2) : REZA
- 3) : REPE
- 4) : IRET

Correct Option : 4 From : Lecture 21

Question # 114

\_\_\_\_\_, Trap, Single step Interrupt

- 1) : INT 0
- 2) : INT 1
- 3) : INT 3
- 4) : INT 0

Correct Option : 2 From : Lecture 21

Question # 115

\_\_\_\_\_,NMI-Non Maskable Interrupt

- 1) : INT 0
- 2) : INT 1
- 3) : INT 3
- 4) : INT 0

Correct Option : 3 From : Lecture 21

Question # 116

To hook an interrupt we change the \_\_\_\_\_ corresponding to that interrupt.

- 1) : SX
- 2) : vector
- 3) : AX
- 4) : BX

Correct Option : 2 From : Lecture 22

Question # 117

\_\_\_\_\_pops IP, then CS, and then FLAGS.

- 1) : Ret n
- 2) : REZA
- 3) : REPE
- 4) : IRET

Correct Option : 4 From : Lecture 21

Question #118

\_\_\_\_\_, Trap, Single step Interrupt

- 1) : INT 0
- 2) : INT 1
- 3) : INT 3
- 4) : INT 0

Correct Option : 2 From : Lecture 21

Question #119

\_\_\_\_\_,NMI-Non Maskable Interrupt

- 1) : INT 0
- 2) : INT 1
- 3) : INT 3
- 4) : INT 0

Correct Option : 3 From : Lecture 21

Question # 120

To hook an interrupt we change the \_\_\_\_\_ corresponding to that interrupt.

- 1) : SX
- 2) : vector
- 3) : AX
- 4) : BX

**1. Assembly language is not a low level language.**

- a. True
- b. False**

**2. In case of COM File first command parameter is stored at \_\_\_\_\_ offset of program segment prefix.**

- a. 0x80 (Not Confirm)**
- b. 0x82
- c. 0x84
- d. 0x86

**3. Address always goes from**

- a. Processor to meory
- b. Memory to processor**
- c. Memory to memory
- d. None of the above

**4. The source register in OUT is**

- a. AL or AX**
- b. BL or BX
- c. CL or CX
- d. DL or DX

**5. By default CS is associated with**

- a. SS
- b. BP
- c. CX
- d. IP**

**6. Which of the following pins of parallel port are grounded**

- a. 10-18
- b. 18-25**
- c. 25-32
- d. 32-39

**7. In the instruction mov word [es:160], 0x1230, 30 represents the character**

- a. A**
- b. B
- c. 0
- d. 1

**8. On executing 0x21 0x3D, if file cant be opened then**

- a. CF will contain 1**
- b. CF will contain 0
- c. ZF will contain 1
- d. ZF will contain 0

**9. Which of the following IRQ is cascading interrupt**

- a. IRQ 0
- b. IRQ 1
- c. IRQ 2**
- d. IRQ 3

**10. The execution of instruction mov word [es:160], 0x1230, will print a character on the screen at**

- a. First column of second row
- b. Second column of first row

- c. Second column of second row
- d. First column of third row

=====

- 1)))SHR and SAL are same?
  - .True (correct)
  - .False
- 2)))mov ax,0 will set ZF flag
  - .True
  - .False
- 3)))In 9 pin DB connector ,which pic is assigned to TD.
  - . 1
  - . 2
  - . 3(correct)
  - . 4
- 4)))Lower 16 bits of EAX are labeled as
  - . AX(correct)
  - . BX
  - .EAX
  - .none of above
- 5))) which is the special prefix used for repeating a block
  - .rep(correct)
  - .repeat
  - .repb
  - .repe
- 6)) JA can not after cmp if unsigned destination is greater than source
  - .true
  - .false

Q=1

Conditional jump can only:

- 1. Far
- 2. short
- 3. near
- 4. all of the given

q=2:

Address is always go from:

- 1. Processor to memory

2. Memory to processor
3. Memory to memory
4. None of given

Q=3;

Programmable interrupt controllers have two ports 20 and 21.....port 20 is a control port while port 21 is .....

1. The interrupt make register
2. Interrupt port
3. Output port
4. Input port

Q=4:

In the instruction "move word[es:160],0x1230 represent the charechter.....

1. A
2. B
3. 0
4. 1

Q=5:

The 8088 processor divides interrupts into how many classes?

1. 2
2. 3
3. 4
4. 5

Q=6:

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

1. DI and BP
2. SI and BP
3. DI and SI
4. DS and SI

Q=7:

In case of COM file,first command line parameter is stored at .....offset of program segment prefix'

1. 0x80
2. 0x82
3. 0x84
4. 0x86

Q=8:

The INT 0x13 service 0x03 is use to ...

1. Read disk sector
2. Write disk sector
3. Reset disk sector
4. Get drive parameters

Q=9:

After the execution of STOSWB,the CX will be.....

1. Incremented by 1
2. Incremented by 2
3. Decrementd by 1
4. Decrementd by 2

Q=10

The execution of the instruction "mov word [ES:160],0x1230"will print a character on the screen at:

1. First column of second row
2. Second column of first row
3. Second column of second row
4. First column of third row

follow

• [Home](#)



**RSS SUBSCRIBE**

- **CS SOLVED QUIZZES**

- **CS101 SOLVED QUIZ**
- **CS201 SOLVED QUIZ**
- **CS301 SOLVED QUIZ**
- **CS302 SOLVED QUIZ**
- **CS304 SOLVED QUIZ**
- **CS401 SOLVED QUIZ**
- **CS403 SOLVED QUIZ**
- **CS504 SOLVED QUIZ**
- **CS610 SOLVED QUIZ**
- **CS601 SOLVED QUIZ**

- **MGT SOLVED QUIZZES**

- **MGT301 SOLVED QUIZ**
- **SUB CATEGORY TWO**
- **SUB CATEGORY THREE**

- **CATEGORY THREE**

- **PARENT CATEGORY ONE**

- **SUB CATEGORY ONE**
- **SUB CATEGORY TWO**
- **SUB CATEGORY THREE**

- **CHILD CATEGORY ONE**

- **UNCATEGORIZED**

- **WHATEVER**



**SATURDAY, 19 NOVEMBER 2011**

CS401 Mid Term Solved

ADDED JAN 6, 2010, UNDER: CS401 MID TERM SOLVED



Question # 1

There are three busses to communicate the processor and memory named as \_\_\_\_\_

- 1) : address bus.,data bus and data bus.
- 2) : addressing bus.,data bus and data bus.
- 3) : address bus.,datamove bus and data bus.
- 4) : **address bus.,data bus and control bus..**

Correct Option : 4 From : Lecture 1

Question # 2

The address bus is unidirectional and address always travels from processor to memory.

- 1) : **TRUE**
- 2) : FALSE
- 3) :
- 4) :

Correct Option : 1 From : Lecture 1

Question # 3

Data bus is bidirectional because\_\_\_\_\_

- 1) : To way
- 2) : Data moves from both, processor to memory and memory to processor,
- 3) : **Data moves from both, processor to memory and memory to data Bus,**
- 4) : None of the Given

Correct Option : 3 From : Lecture 1

Question # 4

Control bus\_\_\_\_\_

- 1) : is Not Important.
- 2) : is Important .
- 3) : **bidirectional.**
- 4) : unidirectional .

Correct Option : 3 From : Lecture 1

Question # 5

A memory cell is an n-bit location to store data, normally \_\_\_\_\_ also called a byte

- 1) : 4-bit
- 2) : **8-bit**
- 3) : 6-bit
- 4) : 80-bit

Correct Option : 2 From : Lecture 1

Question # 6

The number of bits in a cell is called the cell width.\_\_\_\_\_ define the memory completely.

- 1) : **Cell width and number of cells,**

- 2) : cell number and width of the cells,
- 3) : width
- 4) : Height

Correct Option : 1 From : Lecture 1

Question # 7

for memory we define two dimensions. The first dimension defines how many \_\_\_\_\_ bits are there in a single memory cell.

- 1) : **parallel**
- 2) : Vertical
- 3) : long
- 4) : short

Correct Option : 1 From : Lecture 1

Question # 8

\_\_\_\_\_ operation requires the same size of data bus and memory cell width.

- 1) : Normal
- 2) : **Best and simplest**
- 3) : first
- 4) : None of the Given

Correct Option : 2 From : Lecture 1

Question # 9

Control bus is only the mechanism. The responsibility of sending the appropriate signals on the control bus to the memory is of the\_\_\_\_\_.

- 1) : Data Bus
- 2) : **processor**
- 3) : Address Bus
- 4) : None of the Given

Correct Option : 2 From : Lecture 1

Question # 10

In "total: dw o" Opcode total is a \_\_\_\_\_

- 1) : Literal
- 2) : Variable
- 3) : **Label**
- 4) : Starting point

Correct Option : 3 From : Lecture 10

Question # 11

| 0 | --> | 1 | 1 | 0 | 1 | 0 | 0 | 0 | --> | C | is a example of \_\_\_\_\_

- 1) : Shl
- 2) : sar

3) : **Shr**

4) : Sal

Correct Option : 3 From : Lecture 10

Question # 12

| C | <-- | 1 | 1 | 0 | 1 | 0 | 0 | 0 | <-- | 0 | is a example of \_\_\_\_\_

1) : **Shl**

2) : sar

3) : Shr

4) : Sal

Correct Option : 1 From : Lecture 10

Question # 13

ADC has \_\_\_\_\_ operands.

1) : two

2) : **three**

3) : Five

4) : Zero

Correct Option : 2 From : Lecture 10

Question # 14

The basic purpose of a computer is to perform operations, and operations need \_\_\_\_\_.

1) : order

2) : nothing

3) : **operands**

4) : bit

Correct Option : 3 From : Lecture 2

Question # 15

Registers are like a scratch pad ram inside the processor and their operation is very much like normal \_\_\_\_\_.

1) : Number

2) : ooperations

3) : **memory cells**

4) : None of the Given

Correct Option : 3 From : Lecture 2

Question # 16

There is a central register in every processor called the \_\_\_\_\_ and The word size of a processor is defined by the width of its \_\_\_\_\_.

1) : **accumulator,accumulator**

2) : data bus,accumulator

3) : accumulator, Address Bus

4) : accumulator,memory

Correct Option : 1 From : Lecture 2

Question # 17

\_\_\_\_\_ does not hold data but holds the address of data

- 1) : Pointer, Segment, or Base Register
- 2) : **Pointer, Index, or Base Register**
- 3) : General Registers
- 4) : Instruction Pointer

Correct Option : 2 From : Lecture 2

Question # 18

“The program counter holds the address of the next instruction to be \_\_\_\_\_”

- 1) : **executed.**
- 2) : called
- 3) : deleted
- 4) : copy

Correct Option : 1 From : Lecture 2

Question # 19

There are \_\_\_\_\_ types of “instruction groups”

- 1) : **4**
- 2) : 5
- 3) : 3
- 4) : 2

Correct Option : 1 From : Lecture 2

Question # 20

These instructions are used to move data from one place to another.

- 1) : **TRUE**
- 2) : FALSE
- 3) :
- 4) :

Correct Option : 1 From : Lecture 2

Question # 21

“mov” instruction is related to the \_\_\_\_\_ \*\*\*\*\*.

- 1) : Arithmetic and Logic Instructions
- 2) : **Data Movement Instructions**
- 3) : Program Control Instructions
- 4) : Special Instructions

Correct Option : 2 From : Lecture 2

Question # 22

\_\_\_\_\_ allow changing specific processor behaviors and are used to play with it.

- 1) : **Special Instructions**
- 2) : Data Movement Instructions
- 3) : Program Control Instructions
- 4) : Arithmetic and Logic Instructions

Correct Option : 1 From : Lecture 2

Question # 23

8088 is a 16bit processor with its accumulator and all registers of \_\_\_\_\_.

- 1) : 32 bits
- 2) : 6 bits
- 3) : **16 bits**
- 4) : 64 bits

Correct Option : 3 From : Lecture 2

Question # 24

The \_\_\_\_\_ of a processor means the organization and functionalities of the registers it contains and the instructions that are valid on the processor.

- 1) : Manufactures
- 2) : **architecture**
- 3) : Deal
- 4) : None of the Given

Correct Option : 2 From : Lecture 2

Question # 25

Intel IAPX88 Architecture is \_\_\_\_\_

- 1) : **More then 25 old**
- 2) : New
- 3) : Not Good
- 4) : None of the Given

Correct Option : 1 From : Lecture 2

Question # 26

The iAPX88 architecture consists of \_\_\_\_\_ registers.

- 1) : 13
- 2) : 12
- 3) : 9
- 4) : **14**

Correct Option : 4 From : Lecture 3

Question # 27

General Registers are \_\_\_\_\_

1) : **AX, BX, CX, and DX**

2) : XA, BX, CX, and DX

3) : SS,SI and DI

4) : 3

Correct Option : 1 From : Lecture 3

Question # 28

AX means we are referring to the extended 16bit "A" register. Its upper and lower byte are separately accessible as \_\_\_\_\_.

1) : **AH and AL**

2) : A Lower and A Upper

3) : AL, AU

4) : AX

Correct Option : 1 From : Lecture 3

Question # 29

AX is General purpose Register where A stands for \_\_\_\_\_.

1) : Acadmic

2) : Ado

3) : Architecture

4) : **Accumulator**

Correct Option : 4 From : Lecture 3

Question # 30

The B of BX stands for \_\_\_\_\_ because of its role in memory addressing.

1) : Busy

2) : **Base**

3) : Better

4) : None of the Given

Correct Option : 2 From : Lecture 3

Question # 31

The D of DX stands for Destination as it acts as the destination in \_\_\_\_\_.

1) : **I/O operations**

2) : operations

3) : memory cells

4) : Memory I/O operations

Correct Option : 1 From : Lecture 3

Question # 32

The C of CX stands for Counter as there are certain instructions that work with an automatic count in the \_\_\_\_\_.

1) : DI register

- 2) : BX register
- 3) : **CX register**
- 4) : DX register

Correct Option : 3 From : Lecture 3

Question # 33

\_\_\_\_\_ are the index registers of the Intel architecture which hold address of data and used in memory access.

- 1) : SI and SS
- 2) : PI and DI
- 3) : SI and IP
- 4) : **SI and DI**

Correct Option : 4 From : Lecture 3

Question # 34

In Intel IAPX88 architecture \_\_\_\_\_ is the special register containing the address of the next instruction to be executed.

- 1) : AX
- 2) : PI
- 3) : **IP**
- 4) : SI

Correct Option : 3 From : Lecture 3

Question # 35

SP is a memory pointer and is used indirectly by a set of \_\_\_\_\_.

- 1) : **instructions**
- 2) : Pointers
- 3) : Indexes
- 4) : Variables

Correct Option : 1 From : Lecture 3

Question # 36

\_\_\_\_\_ is also a memory pointer containing the address in a special area of memory called the stack.

- 1) : SP
- 2) : **BP**
- 3) : PB
- 4) : AC

Correct Option : 2 From : Lecture 3

Question # 37

\_\_\_\_\_ is bit wise significant and accordingly each bit is named separately.

- 1) : AX
- 2) : FS
- 3) : IP

4) : **Flags Register**

Correct Option : 4 From : Lecture 3

Question # 38

When two 16bit numbers are added the answer can be 17 bits long, this extra bit that won't fit in the target register is placed in the \_\_\_\_\_ where it can be used and tested

- 1) : **carry flag**
- 2) : Parity Flag
- 3) : Auxiliary Carry
- 4) : Zero Flag

Correct Option : 1 From : Lecture 3

Question # 39

Program is an ordered set of instructions for the processor.

- 1) : **TRUE**
- 2) : FALSE
- 3) :
- 4) :

Correct Option : 1 From : Lecture 3

Question # 40

For Intel Architecture "operation destination, source" is way of writing things.

- 1) : **TRUE**
- 2) : FALSE
- 3) :
- 4) :

Correct Option : 1 From : Lecture 3

Question # 41

Operation code " add ax, bx " \_\_\_\_\_.

- 1) : Add the bx to ax and change the bx
- 2) : Add the ax to bx and change the ax
- 3) : **Add the bx to ax and change the ax**
- 4) : Add the bx to ax and change nothing

Correct Option : 3 From : Lecture 3

Question # 42

The maximum memory iAPX88 can access is \_\_\_\_\_.

- 1) : **1MB**
- 2) : 2MB
- 3) : 3MB
- 4) : 128MB

Correct Option : 1 From : Lecture 4



Question # 43

The maximum memory iAPX88 can access is 1MB which can be accessed with \_\_\_\_\_.

1) : 18 bits

2) : **20 bits**

3) : 16 bits

4) : 2 bits

Correct Option : 2 From : Lecture 4

Question # 44

\_\_\_\_\_ address of 1DEDO where the opcode B80500 is placed.

1) : **physical memory**

2) : memory

3) : effective

4) : None of the Given

Correct Option : 1 From : Lecture 4

Question # 45

16 bit of Segment and Offset Addresses can be converted to 20bit Address i.e

Segment Address with lower four bits zero + Offset Address with \_\_\_\_\_ four bits zero = 20bit Physical Address

1) : Middle

2) : lower

3) : Top

4) : **upper**

Correct Option : 4 From : Lecture 4

Question # 46

When adding two 20bit Addresses a carry if generated is dropped without being stored anywhere and the phenomenon is called address \_\_\_\_\_.

1) : **wraparound**

2) : mode

3) : ping

4) : error

Correct Option : 1 From : Lecture 4

Question # 47

segments can only be defined a 16byte boundaries called \_\_\_\_\_ boundaries.

1) : **segment**

2) : paragraph

3) : Cell

4) : RAM

Correct Option : 1 From : Lecture 4

Question # 48

in a Program CS, DS, SS, and ES all had the same value in them. This is called \_\_\_\_\_.

- 1) : equal memory
- 2) : **overlapping segments**
- 3) : segments hiding
- 4) : overlapping SI

Correct Option : 2 From : Lecture 4

Question # 49

“db num1” size of the memory is \_\_\_\_\_

- 1) : **1byte**
- 2) : 4bit
- 3) : 16bit
- 4) : 2byte

Correct Option : 1 From : Lecture 5

Question # 50

“ 1-----[org 0x0100]

2-----mov ax, [num1] ; load first number in ax

3-----mov bx, [num2] ; load second number in bx

4-----add ax, bx \_\_\_\_\_

5-----int 0x21

6-----

7-----num1: dw 5

8-----num2: dw 10

Comments for the 4 are :

- 1) : No comments Will be
- 2) : ; accumulate sum in add
- 3) : ; **accumulate sum in ax**
- 4) : ; accumulate sum in Bx

Correct Option : 3 From : Lecture 5

Question # 51

In “ mov ax, bx ” is \_\_\_\_\_ Addressing Modes.

- 1) : Immediate
- 2) : Indirect
- 3) : Direct
- 4) : **Register**

Correct Option : 4 From : Lecture 5

Question # 52

In "mov ax, [bx]" is \_\_\_\_\_ Addressing Modes

1) : **Based Register Indirect**

2) : Indirect

3) : Base Indirect

4) : Immediate

Correct Option : 1 From : Lecture 5

Question # 53

In "mov ax, 5" is \_\_\_\_\_ Addressing Modes

1) : **Immediate**

2) : Indirect

3) : Indirect

4) : Register

Correct Option : 1 From : Lecture 6

Question # 54

In "mov ax, [num1+bx]" is \_\_\_\_\_ ADDRESSING

1) : OFFSET+ Indirect

2) : Register + Direct

3) : Indirect + Reference

4) : **BASEd REGISTER + OFFSET**

Correct Option : 4 From : Lecture 7

Question # 55

"base + offset addressing" gives This number which came as the result of addition is called the \_\_\_\_\_.

1) : Address

2) : mode

3) : **effective address**

4) : Physical Address

Correct Option : 3 From : Lecture 7

Question # 56

"mov ax, [cs:bx]" associates \_\_\_\_\_ for this one instruction

1) : CS with BX

2) : **BX with CS**

3) : BX with AX

4) : None of the Given

Correct Option : 2 From : Lecture 7

Question # 57

For example

BX=0100

DS=FFFO

And Opcode are;

move [bx+0x0100], Ax

now what is the effective memory address;

1) : 0020

2) : **0200**

3) : 0300

4) : 0x02

Correct Option : 2 From : Lecture 7

Question # 59

In “ mov [1234], al ” is \_\_\_\_\_ Addressing Modes.

1) : Immediate

2) : Indirect

3) : **Direct**

4) : Register

Correct Option : 3 From : Lecture 8

Question # 60

In “ mov [SI], AX ” is \_\_\_\_\_ Addressing Modes.

1) : Basef Register Indirect

2) : Indirect

3) : **Indexed Register Indirect**

4) : Immediate

Correct Option : 3 From : Lecture 8

Question # 61

In “ mov ax, [bx - Si] ” is \_\_\_\_\_ ADDRESSING

1) : Basef Register Indirect

2) : Indirect

3) : Direct

4) : **illegal**

Correct Option : 4 From : Lecture 8

Question # 62

In “ mov ax, [BL] ” there is error i.e. \_\_\_\_\_

1) : Address must be 16bit

2) : Address must be 8bit

3) : Address must be 4bit

4) : **8 bit to 16 bit move illegal**

Correct Option : 4 From : Lecture 8

Question # 63

In "mov ax, [SI+DI]" there is error i.e. \_\_\_\_\_

- 1) : **Two indexes can't use as Memory Address**
- 2) : index can't use as Memory Address
- 3) : I don't Know
- 4) : None of the Given

Correct Option : 1 From : Lecture 8

Question # 64

In JNE and JNZ there is difference for only \_\_\_\_\_;

- 1) : **Programmer or Logic**
- 2) : Assembler
- 3) : Debugger
- 4) : IAPX88

Correct Option : 1 From : Lecture 9

Question # 65

JMP is Instruction that on executing take jump regardless of the state of all flags is called \_\_\_\_\_

- 1) : Jump
- 2) : Conditional jump
- 3) : **Unconditional jump**
- 4) : Stay

Correct Option : 3 From : Lecture 9

Question # 66

When result of the source subtraction from the destination is zero, zero flag is set i.e. ZF=1 its mean that;

- 1) : **DEST = SRC**
- 2) : DEST != SRC
- 3) : DEST < SRC
- 4) : DEST > SRC

Correct Option : 1 From : Lecture 9

Question # 67

When an unsigned source is subtracted from an unsigned destination and the destination is smaller, borrow is needed which sets the \_\_\_\_\_.

- 1) : carry flag i.e CF = 0
- 2) : **carry flag i.e CF = 1**
- 3) : Carry Flag + ZF=1
- 4) : None of the Given

Correct Option : 2 From : Lecture 9

Question # 68

In the case of unassigned source and destination when subtracting and in the result ZF =1 OR CR=1 then \_\_\_\_\_

- 1) : DEST = SRC
- 2) : DEST != SRC
- 3) : **UDEST ? USRC**
- 4) : DEST > SRC

Correct Option : 3 From : Lecture 9

Question # 69

In the case of unassigned source and destination when subtracting and in the result ZF =0 AND CR=0 then \_\_\_\_\_

- 1) : DEST = SRC
- 2) : DEST != SRC
- 3) : UDEST < USRC
- 4) : UDEST > USRC

Correct Option : 4 From : Lecture 9

Question # 70

In the case of unassigned source and destination when subtracting and in the result CR=0 then \_\_\_\_\_

- 1) : DEST = SRC
- 2) : DEST != SRC
- 3) : UDEST < USRC
- 4) : **UDEST ? USRC**

Correct Option : 4 From : Lecture 9

Question # 71

\_\_\_\_\_ This jump is taken if the last arithmetic operation produced a zero in its destination. After a CMP it is taken if both operands were equal.

- 1) : **Jump if zero(JZ)/Jump if equal(JE)**
- 2) : Jump if equal(JE)
- 3) : Jump if zero(JZ)
- 4) : No Jump fot This

Correct Option : 1 From : Lecture 9

Question # 72

\_\_\_\_\_ This jump is taken after a CMP if the unsigned source is smaller than or equal to the unsigned destination.

- 1) : JBE(Jump if not below or equal)
- 2) : **JNA(Jump if not above)/JBE(Jump if not below or equal)**
- 3) : JNA(Jump if not above)
- 4) : No Jump fot This

Correct Option : 2 From : Lecture 9

- 
- 
- 

Looking Something? Search Here

Search Sign Up Sign In

image: [https://storage.ning.com/topology/rest/1.0/file/get/1894214041?profile=RESIZE\\_710x](https://storage.ning.com/topology/rest/1.0/file/get/1894214041?profile=RESIZE_710x)

We are here with you hands in hands to facilitate your learning & don't appreciate the idea of copying or replicating solutions. [Read More>>](#)

IMAGE:

[HTTPS://API.NING.COM/FILES/P0E6PRAPIVQXF22DIUAALSAQN\\*NOXBHSOJTH70EXFGJGKAMGMJMRXA4EEE\\*UAXWYTLNIHNJMP2-IHDCQ2LS505LABRZQWQ82/FINALLASTBANNERLASTUPDATED.JPG](HTTPS://API.NING.COM/FILES/P0E6PRAPIVQXF22DIUAALSAQN*NOXBHSOJTH70EXFGJGKAMGMJMRXA4EEE*UAXWYTLNIHNJMP2-IHDCQ2LS505LABRZQWQ82/FINALLASTBANNERLASTUPDATED.JPG)

Virtual University of Pakistan

<WWW.VUSTUDENTS.NING.COM>



HOME

CHAT

MYPAGE

MEMBERS

FORUM

STUDY ZONE

BLOGS

VIDEOS

PHOTOS

EVENTS

TOP MOST

CONTACT

Looking For Something at [vustudents.ning.com](http://vustudents.ning.com)? [Click Here to Search](#)

image:

[https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE\\_180x180&width=64&height=64&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE_180x180&width=64&height=64&crop=1%3A1)

image: [https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFxGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm\\*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1](https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFxGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1)



CS401 Computer Architecture and Assembly Language Programming Quiz No 1 Solution and Discussion Spring 2014 Due Date: May 08, 2014

Posted by + M.Tariq Malik on April 26, 2014 at 9:57am in CS401 Computer Architecture and Assembly Language Programming Back to CS401 Computer Architecture and Assembly Language Programming Discussions

CS401 Computer Architecture and Assembly Language Programming Quiz No 1 Solution and Discussion Spring 2014 Due Date: May 08, 2014

Quiz No.01 will open on May 07, 2014 and the last date of taking quiz is May 08, 2014



Like 2 members like this Share

Share This With Friends.....

Share0 0

Tweet0 Share0 Share2

+ Click Here To Join also Our facebook study Group.

This Content Originally Published by a member of VU Students.

+ Prohibited Content On Site + Report a violation + Report an Issue

image: <https://www.animatedimages.org/data/media/111/animated-arrow-image-0103.gif>

..How to Join Subject Study Groups & Get Helping Material?..

image: <https://www.animatedimages.org/data/media/111/animated-arrow-image-0104.gif>



Views: 3073

See Your Saved Posts Timeline

Replies to This Discussion

image:

[https://api.ning.com/files/BvvGf9m5PCwpwb1EG9XwhQihCFPSNPkwLNBTbVZHUAnYc5iRYaWz9emJBbBLT1Kqob5UDEML61gCyjnAcfMXgkdP3wGcg45a/1078630746.jpeg?xgip=48%3A13%3A337%3A337%3B%3B&profile=RESIZE\\_180x180&width=48&height=48&crop=1%3A1](https://api.ning.com/files/BvvGf9m5PCwpwb1EG9XwhQihCFPSNPkwLNBTbVZHUAnYc5iRYaWz9emJBbBLT1Kqob5UDEML61gCyjnAcfMXgkdP3wGcg45a/1078630746.jpeg?xgip=48%3A13%3A337%3A337%3B%3B&profile=RESIZE_180x180&width=48&height=48&crop=1%3A1)

Permalink Reply by ĴĩÃ ĆĤ on April 26, 2014 at 11:39am

thanx 4 info

image: <http://www.bkserv.net/images/Smile.gif>

image: <http://www.bkserv.net/images/Smile.gif>

image: [https://api.ning.com/files/vYV2N1KqCyWx-uRXHAn34fAn\\*zA8xwXJDGrhjqEfkvETBMTT1bOuz0CT2Zk\\*PWhcgH9GT2\\*p4Grb9gT1LVk\\*uHXd5EgPjW2O/559187146.jpeg?xgip=9%3A0%3A380%3A380%3B%3B&profile=RESIZE\\_180x180&width=48&height=48&crop=1%3A1](https://api.ning.com/files/vYV2N1KqCyWx-uRXHAn34fAn*zA8xwXJDGrhjqEfkvETBMTT1bOuz0CT2Zk*PWhcgH9GT2*p4Grb9gT1LVk*uHXd5EgPjW2O/559187146.jpeg?xgip=9%3A0%3A380%3A380%3B%3B&profile=RESIZE_180x180&width=48&height=48&crop=1%3A1)

Permalink Reply by abira ali on May 7, 2014 at 2:26pm

Question # 2

Instruction Pointer holds the address of the



Previous instruction to be executed

Current instruction

Next instruction to be executed

None of the given

Question # 3 of 10

Register whose each bit specify a different meaning is

Accumulator Register

vuzs

Pointer Register

Index register

Flag register



Question # 4 of 10

By default CS is associated with

SS

BP

CX

IP

Question # 5 of 10

Memory to Memory operation is allowed

True

False

Question # 6 of 10



Size Mismatch Error is a syntax error

False (Size mismatch is logical error)

True

Question # 7 of 10

unconditional jump can be

near

short

far

all of the given

Question # 8 of 10

Register are storage cell

Outside the processor

Both inside and outside the processor

Inside the processor

None of the given

[www.vuzs.net](http://www.vuzs.net)

Question # 9 of 10

Register to Register Operation is not allowed

True

False

[www.vuzs.net](http://www.vuzs.net)

The operation of CMP is to Subtract source from destination

True



False

Size Mismatch Error is a syntax error

False

True

Unconditional jump

Execute in every condition whether true or false

If the condition is true

If the condition is false

None of the given

Which type of Rotation it is "Every bit moves one position to the right and the bit dropped from the right is inserted at the left. This bit is also copied into the carry flag."

ROL

RCL

RCL

None of the given

Assembly language is not a low level language.

true

False

In JA jump is not taken after a CMP if the unsigned destination is larger than the unsigned source.

True

False



Group of bits processor uses to inform memory which element to read/write is collectively known as

Control bus

Data bus

Address bus



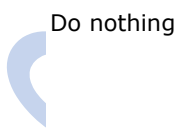
RAM

Memory to Memory operation is allowed

True

False

90 is the op-code of



Do nothing

Add

Subtract

Multiplication

we can not add two base register i.e. (bx+bp) or cant use in an instruction

True

False

Intel follow

Littel endian

Big endian



Both littel endian and big endian

None of the given

SHL and SAL are same

True

False

The first 16-bit processor produced by "Intel" was 8085

True

False



The first 16-bit processor produced by "Intel" was 8085

True

False

[www.vuzs.net](http://www.vuzs.net)

The extension of assembly language file is

.doc

.com

.lst

.asm



When a large number is subtracted from a smaller number, a borrow is needed; in this case which flag will be set

ZF

CF

SF

OF

All the addressing mechanisms in iAPX88 return a number called \_\_\_\_\_ address.

Effective address

Physical address

Direct address

None of the given



Which type of shifting is "Inserts a zero from the left and moves every bit one position to the right and copies the rightmost bit in the carry flag."

SHL

SAL

SAR

None of the given

mov [1234],ax is an example of

Direct addressing

Base register indirect

Base+index

None of the given



Registers are also called scratch pad ram

True

False

The basic function of register is to?

Hold the operand

Hold the operator

Hold both the operator and operand

None of the given



[www.vuzs.net](http://www.vuzs.net)

The jump is taken if the last arithmetic operation changed the sign unexpectedly.

JO

JNO

JNZ

JZ

In JA jump is not taken after a CMP if the unsigned destination is larger than the unsigned source.

True

False



which type of rotation it is "The carry flag is inserted from the left, every bit moves one position to the right, and the right most bit is dropped in the carry flag. "

RCR

ROL

RCL



ROR

which type of rotation it is "The carry flag is inserted from the left, every bit moves one position to the right, and the right most bit is dropped in the carry flag. "

RCR

ROL

RCL

ROR



This jump is taken if the last arithmetic operation produced a number in its destination that has even parity , Which jump is taken

JP

JPE

JNP

both JP and JPE

In direct addressing the memory address given in the instruction is

When a large number is subtracted from a smaller number, a borrow is needed; in this case which flag will be set

ZF

 CF

SF

OF

SHL and SAL are same

True

False

we can not Subrtace index register from the base register( bx-si )in assemly language vuzs

True

False

Group of bits processor uses to inform memory which element to read/write is collectively known as



Control bus

Data bus

Address bus

RAM

image:

[https://api.ning.com/files/mL7vEimd6q1FFRitFm5rLQihCFPSNPkwLNBTbVZHUAnYc5iRYaWz9emUHutIAuNHbO5Nmxp3F1FxMBmg\\*RTwgYfRvHI0ahB7/1063873508.jpeg?xgip=0%3A0%3A255%3A255%3B%3B&profile=RESIZE\\_180x180&width=48&height=48&crop=1%3A1](https://api.ning.com/files/mL7vEimd6q1FFRitFm5rLQihCFPSNPkwLNBTbVZHUAnYc5iRYaWz9emUHutIAuNHbO5Nmxp3F1FxMBmg*RTwgYfRvHI0ahB7/1063873508.jpeg?xgip=0%3A0%3A255%3A255%3B%3B&profile=RESIZE_180x180&width=48&height=48&crop=1%3A1)

Permalink Reply by + Mărie Rajput + on May 7, 2014 at 5:12pm

ye sab question ap ko aj k quizz ma aey hain ????

kitny marks ka quizz tha ???

image:

[https://api.ning.com/files/iIZAd8bUR\\*ap85F47P1pmdlJpHtPpcGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcFrE9d-EeIjoS8TnL7it4zsvJ9UqmwuhZZ/vu.jpg?width=48&height=48&crop=1%3A1](https://api.ning.com/files/iIZAd8bUR*ap85F47P1pmdlJpHtPpcGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcFrE9d-EeIjoS8TnL7it4zsvJ9UqmwuhZZ/vu.jpg?width=48&height=48&crop=1%3A1)

Permalink Reply by cancerian on May 7, 2014 at 8:30pm

8 chapters cover 22 lectures. I observed that first four lectures cover first chapter so please give the breakup of other eight chapters like

Chapter # 1 (lectures # 1,2,3,4)

Chapter #. 2 (?)

Chapter # 3

Chapter #. 4

Chapter #5

Chapter # 6

Chapter # 7

Chapter # 8

image: <https://mail.google.com/mail/u/2/images/cleardot.gif>

image:

[https://api.ning.com/files/mL7vEimd6q1FFRitFm5rLQihCFPSNPkwLNBTbVZHUAnYc5iRYaWz9emUHutIAuNHbO5NmXP3F1FxMBmg\\*RTwgYfRvHI0ahB7/1063873508.jpeg?xgip=0%3A0%3A255%3A255%3B%3B&profile=RESIZE\\_180x180&width=48&height=48&crop=1%3A1](https://api.ning.com/files/mL7vEimd6q1FFRitFm5rLQihCFPSNPkwLNBTbVZHUAnYc5iRYaWz9emUHutIAuNHbO5NmXP3F1FxMBmg*RTwgYfRvHI0ahB7/1063873508.jpeg?xgip=0%3A0%3A255%3A255%3B%3B&profile=RESIZE_180x180&width=48&height=48&crop=1%3A1)

Permalink Reply by + Mărie Țăjput + on May 8, 2014 at 6:09am

check out lms regarding this, go to Course website > Lessons

you will find all lessons.

image:

[https://api.ning.com/files/rLQihCFPSNPkwLNBTbVZHUAnYc5iRYaWz9em8ZYcIsMOyXzqGK7VbRI0ybwlcF4eIMGmst9m1vEHiWLVQHANwn\\*wMYxAv3T-/1217870021.jpeg?xgip=0%3A0%3A477%3A477%3B%3B&profile=RESIZE\\_180x180&width=48&height=48&crop=1%3A1](https://api.ning.com/files/rLQihCFPSNPkwLNBTbVZHUAnYc5iRYaWz9em8ZYcIsMOyXzqGK7VbRI0ybwlcF4eIMGmst9m1vEHiWLVQHANwn*wMYxAv3T-/1217870021.jpeg?xgip=0%3A0%3A477%3A477%3B%3B&profile=RESIZE_180x180&width=48&height=48&crop=1%3A1)

Permalink Reply by + ✨'`cm(nisa)`` ✨ on May 8, 2014 at 1:23pm

10 marks ka quiz hai +Mărie Țăjput+

image: <http://www.bkserv.net/images/Smile.gif>

image:

[https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE\\_180x180&width=48&height=48&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE_180x180&width=48&height=48&crop=1%3A1)

image: [https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFxGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm\\*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1](https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFxGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1)

Permalink Reply by + M.Tariq Malik on May 7, 2014 at 10:40pm

Question # 1 of 10 ( Start time: 12:57:07 PM ) Total Marks: 1

Mechanism used to drop carry for making the calculated address valid is known as:

Select correct option:

Carry Overload

Overflow

Address Wraparound

None of the above

Question # 2 of 10 ( Start time: 12:58:36 PM ) Total Marks: 1

we can not Subtract index register from the base register(  $bx-si$  ) in assembly language

Select correct option:

True

False

Question # 3 of 10 ( Start time: 12:59:56 PM ) Total Marks: 1

Physical address calculation depends on

Select correct option:

Base address

Effective address

Offset Address

None of the above

Question # 4 of 10 ( Start time: 01:01:14 PM ) Total Marks: 1

Simple CMP instruction uses \_\_\_\_\_ operation

Select correct option:

Addition

Division

Subtraction

Multiplication

Question # 5 of 10 ( Start time: 01:02:45 PM ) Total Marks: 1

SS is by default associated with

Select correct option:

BP

IP

SP

BP

Question # 6 of 10 ( Start time: 01:04:14 PM ) Total Marks: 1

When a 32 bit number is divided by a 16 bit number, the remainder is of

Select correct option:

4 bits

8 bits

16 bits

32 bits

Question # 7 of 10 ( Start time: 03:53:38 PM ) Total Marks: 1

Which of the following is not a valid instruction in assembly language?

Select correct option:

MOV AX, 55

MOV AX, BX

MOV CS, 0xb800

MOV BX, AX

Question # 8 of 10 ( Start time: 03:55:09 PM ) Total Marks: 1

Memory to Memory operation is allowed

Select correct option:

True

False

The other directive is "define word" or "dw" with the same syntax as "db" but reserving a whole word of \_\_ bits instead of a byte.



Select correct option:

32

8

16

64

Question # 10 of 10 ( Start time: 03:58:10 PM ) Total Marks: 1

we can not add two base register i.e. (bx+bp) or cant use in an instruction

Select correct option:

True

False

BR,

Answers:

1) Address Wraparound

2) True

3) Effective address

4) Subtaction

5) BP

6) 16 bits

7) MOV CS, 0xb800

8) False

9) 8 bits

10) True>

image:

[https://api.ning.com/files/iIZAd8bUR\\*ap85F47P1pmdlJpHtPpcGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcFrE9d-EeIjoS8TnL7it4zsvJ9UqmwuhZZ/vu.jpg?width=48&height=48&crop=1%3A1](https://api.ning.com/files/iIZAd8bUR*ap85F47P1pmdlJpHtPpcGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcFrE9d-EeIjoS8TnL7it4zsvJ9UqmwuhZZ/vu.jpg?width=48&height=48&crop=1%3A1)



2aqlargmrfxmzPermalink Reply by 2aqlargmrfxmz on May 7, 2014 at 11:11pm

Tariq Bhai question No 9 ka ans 8 bits nai 16 bits ha

image: <http://www.bkserv.net/images/Smile.gif>

image: <http://www.bkserv.net/images/Smile.gif>

image: <http://www.bkserv.net/images/Smile.gif>

image:

[https://api.ning.com/files/rLQihCFPSNPkwLNBTbVZHUAnc5iRYaWz9em8ZYcIsMOyXzqGK7VbRI0ybwlCf4eIMGMst9m1vEHiWLVQHANwn\\*wMYxAv3T-/1217870021.jpeg?xgip=0%3A0%3A477%3A477%3B%3B&profile=RESIZE\\_180x180&width=48&height=48&crop=1%3A1](https://api.ning.com/files/rLQihCFPSNPkwLNBTbVZHUAnc5iRYaWz9em8ZYcIsMOyXzqGK7VbRI0ybwlCf4eIMGMst9m1vEHiWLVQHANwn*wMYxAv3T-/1217870021.jpeg?xgip=0%3A0%3A477%3A477%3B%3B&profile=RESIZE_180x180&width=48&height=48&crop=1%3A1)

Permalink Reply by + 🌸 'cm(NISA)` ` 🌸 on May 8, 2014 at 1:25pm

Hmm 16 hi hai

image: <http://www.bkserv.net/images/Smile.gif>

image:

[https://api.ning.com/files/iIZAd8bUR\\*ap85F47P1pmdlJpHtPpcGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcFrE9d-EeIjoS8TnL7it4zsvJ9UqmwuhZZ/vu.jpg?width=48&height=48&crop=1%3A1](https://api.ning.com/files/iIZAd8bUR*ap85F47P1pmdlJpHtPpcGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcFrE9d-EeIjoS8TnL7it4zsvJ9UqmwuhZZ/vu.jpg?width=48&height=48&crop=1%3A1)



1quypvq75nb4qPermalink Reply by 1quypvq75nb4q on May 8, 2014 at 4:28pm

Today main chat room ma ya quiz solved kiya tha sub nay ??? ager koi ans theek nai ha to correct ker den..thax

1. When a large number is subtracted from a smaller number, a borrow is needed; in this case which flag will be se

cf

2. jump is not position relative but is absolute

far

3. Group of bits processor uses to inform memory which element to read/write is collectively known as

address bus

4. A complete \_\_\_\_\_ is called a pass over the array

ITERATION

5. There are \_\_\_\_\_ types of address wraparound

2



6. All the addressing mechanisms in iAPX88 return a number called \_\_\_\_\_ address.

Effective

7. Whenever we need access to a memory location whose address is not known until run-time we use \_\_\_\_\_.

## INDEX REGISTOR

8. DX plays an important role in arithmetic \_\_\_\_\_.

## DIVISION

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

00000011

10. To multiply a number in a register by 2 the number is \_\_\_\_\_.

Shifted right one bit

image:

[https://api.ning.com/files/iIZAd8bUR\\*ap85F47P1pmdIjpHtPpcGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcFrE9d-EeIjoS8TnL7it4zsvJ9UqmwuhZZ/vu.jpg?width=48&height=48&crop=1%3A1](https://api.ning.com/files/iIZAd8bUR*ap85F47P1pmdIjpHtPpcGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcFrE9d-EeIjoS8TnL7it4zsvJ9UqmwuhZZ/vu.jpg?width=48&height=48&crop=1%3A1)

1quypvq75nb4qPermalink Reply by 1quypvq75nb4q on May 8, 2014 at 6:13pm

SP is associated (by default) with \_\_\_\_\_.

cs

Intel follows \_\_\_\_\_.

Little endian

The maximum amount of memory accessible using 8085 processor is \_\_\_\_\_.

64 kb

Which of the following addressing scheme has been used in the instruction MOV [BX], AX?.....

base register direct access

Instruction Pointer holds the address of the.....

next instruction to be executed

Sending the appropriate signals on the control bus to the memory is the responsibility of \_\_\_\_\_.

processor control

Register whose each bit specifies a different meaning is-----

flag Register

The iAPX88 processor supports \_\_\_\_\_ modes of memory access.

7

CX register is mostly used as a

counter control

-----

Constant can never be used as \_\_\_\_\_.

source

destination

both source and destination

immediate source

-----



Which one of the following is an illegal instruction?

MOV ax,[bx+bp]

-----

In \_\_\_\_\_ every bit moves one position to the right and the bit dropped from the right is inserted at the left and also copied into the carry flag ?

RCR

RCL

ROR

ROL

-----

In \_\_\_\_\_ operation, a carry flag is inserted from the left moving every bit one position to the right, with the right most bit is dropped in the carry flag".

RCR

ROL

RCL

ROR

-----

Which of the following is not a valid instruction in assembly language?

MOV CS, 0xb800

-----

Data bus is \_\_\_\_\_.

bidirectional confirm

-----

Simple CMP instruction uses \_\_\_\_\_ operation.

Subtraction



-----

The \_\_\_\_\_ operation is about shifting every bit one place to the right with a copy of the most significant bit left at the most significant place. The bit dropped from the right is caught in the carry basket.

Shift Logical Right (SHR)

Shift Arithmetic Right (SAR)

Shift Arithmetic Left (SAL)

Shift Logical Left (SHL)

-----

After the execution of SAR instruction, \_\_\_\_\_.

The msb is replaced by a 0



The msb retains its original value

The msb is replaced by 1

The msb is replaced by the value of CF

-----

Which of the following instruction is effectively same as to multiply the value of AX by 8?

MUL AX, 3

-----

The shift logical left operation is the exact \_\_\_\_\_ of shift logical right.

opposite

-----

The \_\_\_\_\_ operation is about shifting every bit one place to the right with a copy of the most significant bit left at the most significant place. The bit dropped from the right is caught in the carry basket.

Shift Logical Left (SHL)

SHR

SHL



-----

The basic function of register is to

Hold the operand

-----

When a 32 bit number is divided by a 16 bit number, the remainder is of

8

-----

n \_\_\_\_\_ every bit moves one position to the right and the bit dropped from the right is inserted at the left and also copied into the carry flag ?

ROL

RCR

RCL

ROR

-----

mov [bp], al" moves the one byte contents of the AL register to the address contained in BP register in the current \_\_\_\_\_.

Stack Segment



Data Segment

Code Segment

Extra SegmentExtra Segment

-----

Which of the following shift operation inserts a zero from the left and moves every bit one position to the right and copies the rightmost bit in the carry flag ?

SHL

-----

In case of short jump, the offset is stored in \_\_\_\_\_ .

1 2 4 16 bytes?

image:

[https://api.ning.com/files/iIZAd8bUR\\*ap85F47P1pmdlJpHtPpcGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcFrE9d-EeIjoS8TnL7it4zsvJ9UqmwuhZZ/vu.jpg?width=48&height=48&crop=1%3A1](https://api.ning.com/files/iIZAd8bUR*ap85F47P1pmdlJpHtPpcGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcFrE9d-EeIjoS8TnL7it4zsvJ9UqmwuhZZ/vu.jpg?width=48&height=48&crop=1%3A1)

1quypvq75nb4qPermalink Reply by 1quypvq75nb4q on May 8, 2014 at 7:58pm

The \_\_\_\_\_ operation is about shifting every bit one place to the right with a copy of the most significant bit left at the most significant place. The bit dropped from the right is caught in the carry basket.

Shift Logical Right (SHR)

Shift Arithmetic Right (SAR)



Shift Arithmetic Left (SAL)

Shift Logical Left (SHL)

< Previous

1

2

Next >

Page

2

RSS

Welcome Guest

image: [https://api.ning.com/files/WItTFfACAjceq0Z9scF-2P8-PEOCiskrhevMG69xLcPEO2dN6EUNXc1D02aw3mZyUCwZS78JwFbU4CraNbOH5mwVvAbouPgH/registernow\\_blue.png?width=175](https://api.ning.com/files/WItTFfACAjceq0Z9scF-2P8-PEOCiskrhevMG69xLcPEO2dN6EUNXc1D02aw3mZyUCwZS78JwFbU4CraNbOH5mwVvAbouPgH/registernow_blue.png?width=175)

Sign Up

or Sign In

LATEST ACTIVITY

30+ new items

image:


 [https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)

image: [https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm\\*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1](https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1)

+ M.Tariq Malik replied to + M.Tariq Malik's discussion CS507 Mid Term Papers Spring 2019 (15~28-June 2019) & All Solved Past Papers, Solved MCQs & Helping Material in the group CS507 Information Systems

10 hours ago

image:

[https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)

image: [https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFxFGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm\\*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1](https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFxFGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1)

+ M.Tariq Malik replied to + M.Tariq Malik's discussion CS507 Mid Term Papers Spring 2019 (15~28-June 2019) & All Solved Past Papers, Solved MCQs & Helping Material in the group CS507 Information Systems

10 hours ago

image:

[https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)

image: [https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFxFGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm\\*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1](https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFxFGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1)

+ M.Tariq Malik replied to + M.Tariq Malik's discussion CS507 Mid Term Papers Spring 2019 (15~28-June 2019) & All Solved Past Papers, Solved MCQs & Helping Material in the group CS507 Information Systems

10 hours ago

image:

[https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)

image: [https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm\\*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1](https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1)

+ M.Tariq Malik replied to + M.Tariq Malik's discussion CS507 Mid Term Papers Spring 2019 (15~28-June 2019) & All Solved Past Papers, Solved MCQs & Helping Material in the group CS507 Information Systems

10 hours ago


image:  
[https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)

image: [https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm\\*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1](https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1)

+ M.Tariq Malik's 8 discussions were featured

CS507 Mid Term Papers Spring 2019 (15~28-June 2019) & All Solved Past Papers, Solved MCQs & Helping Material

CS508 Mid Term Papers Spring 2019 (15~28-June 2019) & All Solved Past Papers, Solved MCQs & Helping Material

 MCM101 Mid Term Papers Spring 2019 (15~28-June 2019) & All Solved Past Papers, Solved MCQs & Helping Material

5 more...

10 hours ago

image:  
[https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)

image: [https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm\\*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1](https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1)

+ M.Tariq Malik liked + M.Tariq Malik's discussion CS507 Mid Term Papers Spring 2019 (15~28-June 2019) & All Solved Past Papers, Solved MCQs & Helping Material

10 hours ago


image: [https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)

image: [https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm\\*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1](https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1)

+ M.Tariq Malik added a discussion to the group CS507 Information Systems

image: [https://api.ning.com/files/F2gXzo9gtlVpHeOGhm0X5j\\*BfvL9u5mRqmw-CkZ3NaBkbzOJrkZDprWBIJ-B4hNk6XEs518vC-lp7\\*UZ-H38TIWLTN2Mv475/imagesCAFNEF1J.jpg?profile=RESIZE\\_180x180&crop=1%3A1&width=64](https://api.ning.com/files/F2gXzo9gtlVpHeOGhm0X5j*BfvL9u5mRqmw-CkZ3NaBkbzOJrkZDprWBIJ-B4hNk6XEs518vC-lp7*UZ-H38TIWLTN2Mv475/imagesCAFNEF1J.jpg?profile=RESIZE_180x180&crop=1%3A1&width=64)

Thumbnail

 CS507 Mid Term Papers Spring 2019 (15~28-June 2019) & All Solved Past Papers, Solved MCQs & Helping Material

10 hours ago

4 1

image: [https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)



image: [https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm\\*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1](https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1)

+ M.Tariq Malik replied to + M.Tariq Malik's discussion CS508 Mid Term Papers Spring 2019 (15~28-June 2019) & All Solved Past Papers, Solved MCQs & Helping Material in the group CS508 Modern Programming Languages

10 hours ago

image:  
[https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)

image: [https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm\\*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1](https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1)

+ M.Tariq Malik replied to + M.Tariq Malik's discussion CS508 Mid Term Papers Spring 2019 (15~28-June 2019) & All Solved Past Papers, Solved MCQs & Helping Material in the group CS508 Modern Programming Languages

10 hours ago

image:  
[https://storage.ning.com/topology/rest/1.0/file/get/292124640?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/292124640?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)



Muhammad Bilal liked zohaib iftikhar's discussion ...\* HALAAT K QADMON PE KABHI QALANDER NAHI GIRTA ...\*

10 hours ago

image:  
[https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)

image: [https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm\\*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1](https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1)

+ M.Tariq Malik replied to + M.Tariq Malik's discussion CS508 Mid Term Papers Spring 2019 (15~28-June 2019) & All Solved Past Papers, Solved MCQs & Helping Material in the group CS508 Modern Programming Languages

10 hours ago

image: [https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2742202890?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)

image: [https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm\\*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1](https://api.ning.com/files/bR8nA-I0SJG6CIZy-G9bFvGXvn7hyT4N02K91fZsBDwSGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcF-opkYm*m2jWzSgMBAS/ddd.png?size=64&crop=1%3A1)

+ M.Tariq Malik replied to + M.Tariq Malik's discussion CS508 Mid Term Papers Spring 2019 (15~28-June 2019) & All Solved Past Papers, Solved MCQs & Helping Material in the group CS508 Modern Programming Languages

10 hours ago

[More Latest Activity? Click Here](#)

[RSS](#)

 STUDY CORNER FOR DIGISKILLS STUDENTS

image: [https://storage.ning.com/topology/rest/1.0/file/get/2200595117?profile=RESIZE\\_710x](https://storage.ning.com/topology/rest/1.0/file/get/2200595117?profile=RESIZE_710x)

image: [https://storage.ning.com/topology/rest/1.0/file/get/2200942483?profile=RESIZE\\_710x](https://storage.ning.com/topology/rest/1.0/file/get/2200942483?profile=RESIZE_710x)

TODAY TOP MEMBERS

1

image:

[https://storage.ning.com/topology/rest/1.0/file/get/2665646886?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/2665646886?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)

+ ツ

2

image:

[https://storage.ning.com/topology/rest/1.0/file/get/1568148567?profile=RESIZE\\_180x180&width=32&height=32&crop=1%3A1](https://storage.ning.com/topology/rest/1.0/file/get/1568148567?profile=RESIZE_180x180&width=32&height=32&crop=1%3A1)

+ ≡ J K ≡ B . E D 1 . 5

3

image:

[https://api.ning.com/files/iIZAd8bUR\\*ap85F47P1pmdIjpHtPpcGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcFrE9d-EeIjoS8TnL7it4zsvJ9UqmwuhZZ/vu.jpg?width=32&height=32&crop=1%3A1](https://api.ning.com/files/iIZAd8bUR*ap85F47P1pmdIjpHtPpcGf9m5PCwpwb1EG9XyJgwVosLWYX7URUBcFrE9d-EeIjoS8TnL7it4zsvJ9UqmwuhZZ/vu.jpg?width=32&height=32&crop=1%3A1)

A



RSS

View All

image: [https://storage.ning.com/topology/rest/1.0/file/get/1894642504?profile=RESIZE\\_710x](https://storage.ning.com/topology/rest/1.0/file/get/1894642504?profile=RESIZE_710x)

---

In Left - Shift - Operation , the left most bit \_\_\_\_\_

Select correct option

will be dropped

will go into CF

will be moved to the right - most position

will always be 1

Question # 2 of 10 ( Start time:

09 :16 :53 PM ) Total Marks: 1

" mov [ bp ] , al " moves the one byte contents of the AL register to the address contained in BP register in the current \_\_\_\_\_ .

Select correct option :

**Stack Segment**

Data Segment

Code Segment

Extra Segment

Question # 3 of 10 ( Start time:

09 :17 :33 PM ) Total Marks: 1

CX register is mostly used as a

Select correct option :

**counter register**

flag register

base register

desination register

Question # 4 of 10 ( Start time:

09 :18 :55 PM ) Total Marks: 1

By default CS is associated

with

Select correct option :

**SS**

BP

CX

IP

Question # 5 of 10 ( Start time:

09 :20 :30 PM ) Total Marks: 1

Which of the following shift operation inserts a zero from the left and moves every bit one position to the right and copies the rightmost bit in the carry flag ?

Select correct option :

SHL

SAL

SAR

SHR

Question # 6 of 10 ( Start time:  
09 :21 :58 PM ) Total Marks: 1

The \_\_\_\_\_ operation is about shifting every bit one place to the right with a copy of the most significant bit left at the most significant place . The bit dropped from the right is caught in the carry basket .

Select correct option :

Shift Logical Left (SHL )

Shift Logical Right ( SHR )

**Shift Arithmetic ( SAR )**

Shift Arithmetic Left (SAL )

Question # 7 of 10 ( Start time:  
09 :23 :17 PM ) Total Marks: 1

In \_\_\_\_\_ every bit moves one position to the right and the bit dropped from the right is inserted at the left and also copied into the carry flag ?

Select correct option :

ROL

RCR

RCL

**ROR**

Question # 8 of 10 ( Start time:  
09 :24 :15 PM ) Total Marks: 1

Which one of the following is an illegal instruction?

Select correct option

MOV AX ,BX

MOV AX ,65

**MOV ax ,[ bx + bp ]**

Mov BX , 10

Question # 9 of 10 ( Start time:  
09 :24 :54 PM ) Total Marks: 1

The shift logical left operation is the exact \_\_\_\_\_ of shift logical right .

Select correct option :

Similar

**Opposite**

implementation

comparison

Question # 10 of 10 ( Start time :  
09 :25 :41 PM ) Total Marks: 1

Physical address calculation depends on

Select correct option :

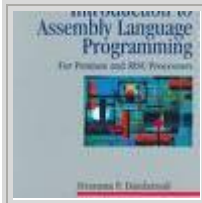
Base address

Effective address

**Offset Address**

Segment Address

1

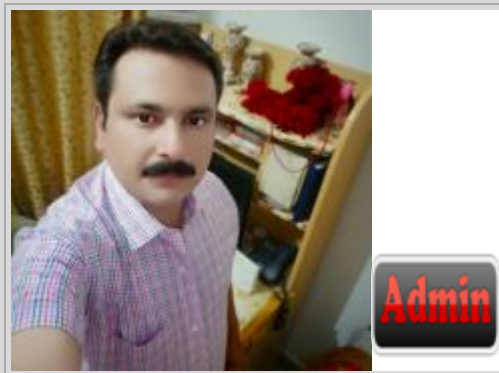


# CS401 Computer Architecture and Assembly Language Programming

2020 members

[Description](#)

[Comments](#)[Discussions](#)[Members](#)



## CS401 Online Quiz No 02 Solution & Discussion Last Date:17-12-2014

by [+ M.Tariq Malik](#)

Dec 8, 2014

**CS401 Online Quiz No 02 Solution & Discussion Last Date:17-12-2014**

CS401 - Computer Architecture and Assembly Language Programming Online Quiz 2 Solution Fall 2014 of Virtual University (VU)

**Dear Students**

This is to inform that quiz 02 will be opened on 16th December, 2014 and last date to attempt quiz will be 17th December, 2014.

**Instructions:**

- You can start attempting the quiz at any time but within given date(s) by clicking the quick link for Quiz on VU-LMS as it will become enabled within the mentioned dates. As soon as the time will be over, it will automatically be disabled and will not be available to attempt it.

[Load Previous Replies](#)



[+ M.Tariq Malik](#)  
**CS401 Quiz 2**

Dec 17, 2014

---



[nina](#)

XOR can also be used as a \_\_\_\_\_ to invert selective bits.  
Making operations

Dec 17, 2014

---



[Syeda Shahzadi Bukhari \(BS 8th \)](#)

Question # 1 of 10 ( Start time: 09:38:11 PM ) Total Marks: 1

In case of near jump, the relative address is stored in \_\_\_\_\_ bits.

Select correct option:

4

8

16 .....right

32

Question # 2 of 10 ( Start time: 09:38:39 PM ) Total Marks: 1  
The Jump command that does not depend on FLAG register is  
Select correct option:

JCXZ  
JO  
JNE.....right  
JP

Question # 3 of 10 ( Start time: 09:40:04 PM ) Total Marks: 1  
In SCAS Example, We use SCASB with \_\_\_\_\_ and a zero in AL register to  
find a zero byte in a string.  
Select correct option:

REPNE ...right  
SCAS  
MOV  
CALL

Question # 4 of 10 ( Start time: 09:40:24 PM ) Total Marks: 1  
How much byte/bytes cannot be pushed and popped from the stack at once.  
Select correct option:

Single  
Double  
Three ....right not sure  
Four



Question # 5 of 10 ( Start time: 09:41:55 PM ) Total Marks: 1  
Which of the following are the two variants of STOS instruction?  
Select correct option:

STOSB and STOSW .....right  
STOS and STOSES  
STOS1 and STOS2  
STOSA and STOSB

Question # 6 of 10 ( Start time: 09:43:00 PM ) Total Marks: 1  
\_\_\_\_\_ jump is not position relative but is absolute  
Select correct option:

Near  
Short  
Far ....right  
Extra

Question # 7 of 10 ( Start time: 09:43:22 PM ) Total Marks: 1  
DW can store \_\_\_\_\_ bit value in it.  
Select correct option:

8  
16  
24  
32 ..right

Question # 8 of 10 ( Start time: 09:44:13 PM ) Total Marks: 1  
LDS instruction loads \_\_\_\_\_ register.  
Select correct option:

ES  
DS .....right  
CX

Question # 9 of 10 ( Start time: 09:44:46 PM ) Total Marks: 1  
Our computers screen is like a 2-D array having \_\_\_\_\_ rows and  
\_\_\_\_\_ columns.  
Select correct option:

25, 40  
25, 80  
80, 25 .....right

Question # 10 of 10 ( Start time: 09:46:08 PM ) Total Marks: 1  
To convert the case of a character, we add or subtract \_\_\_\_\_  
from its ASCII code.  
Select correct option:

0x10  
0x20.....right  
0x30  
0x41

Dec 17, 2014

[1 member likes this](#)

4



# ALL CS401 solved Quiz no 1 and 2 (2013 and 2014 ) in one discussion

by [+ WASI\(S.Admin\) +](#)  
May 27, 2014

Cs 401 Quiz no 1 (2014)@ wasi

Question # 1 of 10 ( Start time: 12:57:07 PM ) Total Marks: 1  
Mechanism used to drop carry for making the calculated address valid is known as:

Select correct option:

Carry Overload

Overflow

**Address Wraparound**

None of the above

Question # 2 of 10 ( Start time: 12:58:36 PM ) Total Marks: 1  
we can not Subrtace index register from the base register( bx-si )in assembly language

Select correct option:

**True**

False

Question # 3 of 10 ( Start time: 12:59:56 PM ) Total Marks: 1  
Physical address calculation depends on

Select correct option:

Base address

**Effective address**

Offset Address

None of the above

Question # 4 of 10 ( Start time: 01:01:14 PM ) Total Marks: 1  
Simple CMP instruction uses \_\_\_\_ operation

Select correct option:

Addition

Division

**Subtraction**

Multiplicaion

Question # 5 of 10 ( Start time: 01:02:45 PM ) Total Marks: 1

SS is by default associated with

Select correct option:

**BP**

IP

SP

BP

Question # 6 of 10 ( Start time: 01:04:14 PM ) Total Marks: 1

When a 32 bit number is divided by a 16 bit number, the remainder is of

Select correct option:

4 bits

8 bits

**16 bits**

32 bits

Question # 7 of 10 ( Start time: 03:53:38 PM ) Total Marks: 1

Which of the following is not a valid instruction in assembly language?

Select correct option:

MOV AX, 55

MOV AX, BX

**MOV CS, 0xb800**

MOV BX, AX

Question # 8 of 10 ( Start time: 03:55:09 PM ) Total Marks: 1

Memory to Memory operation is allowed

Select correct option:

True

**False**

Question # 9 of 10 The other directive is “define word” or “dw” with the same syntax as “db” but reserving a whole word of \_\_ bits instead of a byte.

Select correct option:

32

**8**

16

64

Question # 10 of 10 ( Start time: 03:58:10 PM ) Total Marks: 1

we can not add two base register i.e. (bx+bp) or cant use in an instruction

Select correct option:

True

False



• [+ WASI\(S.Admin\) +](#)

### Cs 401 Quiz no 1 (2014)@ wasi

Question # 1 of 10 ( Start time: 12:57:07 PM ) Total Marks: 1

Mechanism used to drop carry for making the calculated address valid is known as:

Select correct option:

Carry Overload

Overflow

**Address Wraparound**

None of the above

Question # 2 of 10 ( Start time: 12:58:36 PM ) Total Marks: 1

we can not Subrtace index register from the base register( bx-si )in assembly language

Select correct option:

**True**

False

Question # 3 of 10 ( Start time: 12:59:56 PM ) Total Marks: 1

Physical address calculation depends on

Select correct option:

Base address

**Effective address**

Offset Address

None of the above

Question # 4 of 10 ( Start time: 01:01:14 PM ) Total Marks: 1

Simple CMP instruction uses \_\_\_\_\_ operation

Select correct option:

Addition

Division

**Subtraction**

Multiplicaiion

Question # 5 of 10 ( Start time: 01:02:45 PM ) Total Marks: 1

SS is by default associated with

Select correct option:

**BP**

IP

SP

BP

Question # 6 of 10 ( Start time: 01:04:14 PM ) Total Marks: 1

When a 32 bit number is divided by a 16 bit number, the remainder is of

Select correct option:

4 bits

8 bits

**16 bits**

32 bits

Question # 7 of 10 ( Start time: 03:53:38 PM ) Total Marks: 1

Which of the following is not a valid instruction in assembly language?

Select correct option:

MOV AX, 55

MOV AX, BX

**MOV CS, 0xb800**

MOV BX, AX

Question # 8 of 10 ( Start time: 03:55:09 PM ) Total Marks: 1

Memory to Memory operation is allowed

Select correct option:

True

**False**

Question # 9 of 10 The other directive is “define word” or “dw” with the same syntax as “db” but reserving a whole word of \_\_\_ bits instead of a byte.

Select correct option:

32  
8  
16  
64

Question # 10 of 10 ( Start time: 03:58:10 PM ) Total Marks: 1  
we can not add two base register i.e. (bx+bp) or cant use in an instruction  
Select correct option:

**True**  
False

**Cs 401 Quiz no 1 (2014)@ wasi**

1. When a large number is subtracted from a smaller number, a borrow is needed; in this case which flag will be

**Ans cf**

2. jump is not position relative but is absolute.

**Ans far**

3. Group of bits processor uses to inform memory which element to read/write is collectively known as.

**Ans address bus**

4. A complete \_\_\_\_\_ is called a pass over the array.

**Ans ITERATION**

5. There are \_\_\_\_\_ types of address wraparound.

**Ans 2**

6. All the addressing mechanisms in iAPX88 return a number called \_\_\_\_\_ address.

**Ans Effective**

7. Whenever we need access to a memory location whose address is not known until run-time we use \_\_\_\_\_.

**Ans INDEX REGISTOR**

8. DX plays an important role in arithmetic \_\_\_\_\_.

**Ans DIVISION**

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

**Ans 00000011**

10. To multiply a number in a register by 2 the number is \_\_\_\_\_.

**Ans Shifted right one bit**

11. SP is associated (by default) with \_\_\_\_\_.

**Ans cs**

12. Intel follows \_\_\_\_\_.

**Ans Little endian**

13 The maximum amount of memory accessible using 8085 processor is \_\_\_\_\_.

**Ans 64 kb**

14. Which of the following addressing scheme has been used in the instruction MOV [BX], AX?.....

**Ans base register direct access**

15. Instruction Pointer holds the address of the.....

**Ans next instruction to b executd**

16. Sending the appropriate signals on the control bus to the memory is the responsibility of \_\_\_\_\_.

**Ans processor confirm**

17. Register whose each bit specify a different meaning is-----



**Ans flag Register**

18. The iAPX88 processor supports \_\_\_\_\_modes of memory access.

**Ans 7**

19. CX register is mostly used as a

**Ans counter confirm**

20.Which one of the following is an illegal instruction?

**Ans MOV ax,[bx+bp]**

21. Which of the following is not a valid instruction in assembly language?

**Ans MOV CS, 0xb800**

22. Data bus is \_\_\_\_\_.

**Ans bidirectional confirm**

23.Simple CMP instruction uses \_\_\_\_\_ operation.

**Ans Subtraction**

24. Which of the following instruction is effectively same as to multiply the value of AX by 8?

**Ans MUL AX, 3**

25. The shift logical left operation is the exact \_\_\_\_\_ of shift logical right.

**Ans oposite**

26. When a 32 bit number is divided by a 16 bit number, the remainder is of

**Ans 8**

27. Which of the following shift operation inserts a zero from the left and moves every bit one position to the right and copies the rightmost bit in the carry flag ?

**Ans SHL**

28. In \_\_\_\_\_ every bit moves one position to the right and the bit dropped from the right is inserted at the left and also copied into the carry flag ?

ROR

RCL

**Ans ROR**

ROL

29. In \_\_\_\_\_ operation, a carry flag is inserted from the left moving every bit one position to the right, with the right most bit is dropped in the carry flag".

**Ans RCR**

ROL

RCL

ROR

4

Both DS and ES can be used to access the video memory. However we commonly keep DS for accessing our data, and load ES with the segment of video memory. Select correct option:

**True**

False

**PAGE 81**

Question # 2 of 10 ( Start time: 03:17:23 PM ) Total Marks: 1  
How many characters standard ASCII has?  
Select correct option:

512

**256**

128

64

During the CALL operation, the current value of the instruction pointer is automatically saved on the stack, and the destination of CALL is loaded in the instruction pointer. Select correct option:

- True**
- False

VGA stands for Select correct option:

- Video Graphic Accumulator
- Video Graphics Adapter**
- Visual Graphics Adapter
- Video Graphics Application

Video Graphics Adapter

\_\_\_\_\_ transfers the word at the current top of stack (pointed to by SP) to the destination operand and then increments SP by two to point to the new top of stack. Select correct option:

- PUSH
- POP**
- CALL
- None of the given

The execution of the instruction "mov word [ES : 160], 0x1230" will print a character on the screen at: Select correct option:

- First column of second row**
- Second column of first row
- Second column of second row
- First column of third row

The Operation of pop ax is AX <-- [SP] SP <-- SP-2 Select correct option:

True  
**False**

\_\_\_\_\_ function decrements SP (the stack pointer) by two and then transfers a word from the source operand to the top of stack now pointed to by SP.  
Select correct option:

POP  
**PUSH**  
RET  
ADD

Far calls are called intra segment calls.  
Select correct option:

**True**  
False

STOS is often used to clear a block of memory or fill it with a constant.  
Select correct option:

**True**  
False

How many characters were defined by standard ASCII?

Select correct option:

132

124

122

**128**

Stack clearing by the caller needs an extra instruction on behalf of the caller after every call made to the subroutine, unnecessarily increasing instructions in the program.  
Select correct option:

**True**  
False

The direction of movement is controlled with the \_\_\_\_\_ in the flags register. If this flag is cleared the direction is from lower addresses towards higher addresses and if this flag is set the direction

is from higher addresses to lower addresses.  
Select correct option:

Direction	Flag	(DF)
Control	Flag	(CF)
Carry	Flag	(CF)
Non of above		

ASCII stands for \_\_\_\_\_.  
Select correct option:

American Standard Code for Information Interchange
<b>American Standard Code for Information Interchange</b>
American Standard Communication for Integer Interchange
American Scientific Communication for Integer Interaction

During the CALL operation, the current value of the instruction pointer is automatically saved on the stack, and the destination of CALL is loaded in the instruction pointer.  
Select correct option:

Extended ASCII has 256 characters with assigned numbers from  
Select correct option:

1	to	255
0	to	256
<b>0</b>	<b>to</b>	<b>255</b>
1 to 256		

Hexadecimal is the prevalent and standard format for representation of characters in computers.  
Select correct option:

**True**  
False

The execution of the instruction "mov word [ES : 160], 0x1230" will print a character on the screen at:  
Select correct option:

First	column	of	second	row
Second	column	of	first	row
Second	column	of	second	row
First column of third row				

In the instruction "mov word [es:160], 0x1230", 12 means:  
Select correct option:

green	color	on	black	background
green	color	on	blue	background
black	color	on	green	background

blue color on green background

This top of stack is contained in the \_\_\_\_ register.  
Select correct option:

- SP**
- BP
- AX
- BX

PUSH increments SP (the stack pointer) by two and then transfers a word from the source operand to the top of stack now pointed to by SP.  
Select correct option:

- True
- False**

Page 71

The reduction in code size and the improvement in speed are the two reasons why block processing instructions were introduced in the \_\_\_\_\_ processor.  
Select correct option:

- 8088**
- 8085
- 8080
- iAPX386

MOVS is used to \_\_\_\_\_ a block of memory.  
Select correct option:

- Save
- Move**

Delete  
Push

The operation of PUSH is not similar to CALL however with a register other than the instruction pointer.  
Select  correct  option:

True  
**False**

Reference: operation of PUSH is similar to CALL however with a register other than the instruction pointer. page 69

Both DS and ES can be used to access the video memory. However we commonly keep DS for accessing our data, and load ES with the segment of video memory.  
Select  correct  option:

True  
False

Which bit of the attributes byte represents the blue component of foreground color ?  
Select  correct  option:

**0**  
1  
2  
3

SCAS compares a source byte or word in register AL or AX with the \_\_\_\_\_ string element addressed by ES: DI and updates the flags.

Source

Destination

**Flag**

Register

page 92

An element is pushed on the stack SP is decremented by \_\_\_\_ as the 8088 stack works on word sized elements.

Three

**two**

four

five

page 68

To access the arguments from the stack, the immediate idea that strikes is to \_\_\_\_ them off the stack.

push

**pop**

add

insert

We use \_\_\_\_\_ to access the parameters that are stay on the stack with out popping them.

pop

**DS not sure**

PUSH

BP

How many characters were defined by standard ASCII?

132

124

**128**

ASCII table is the contiguous arrangement of the uppercase alphabets (41-5A), the lowercase alphabets (61-7A), and the numbers \_\_\_\_\_

31-40

29-39



30-39

page no 80

The purpose of MOVS instruction is to move a memory location to register

True

**False**

\_\_\_\_\_ decrements SP (the stack pointer) by two and then transfers a word from the source operand to the top of stack now pointed to by SP.

**push**

pop

call

None

This top of stack is contained in the \_\_\_\_ register.

**SP**

BP

AX

To access the arguments from the stack, the immediate idea that strikes is to \_\_\_\_ them off the stack.

Select \_\_\_\_\_ correct \_\_\_\_\_ option:

Push

**Pop**

Add

Insert

Parameters \_\_\_\_\_ clears \_\_\_\_\_ from \_\_\_\_\_ the \_\_\_\_\_ stack \_\_\_\_\_ by \_\_\_\_\_ the

Select \_\_\_\_\_ correct \_\_\_\_\_ option:

caller

callee

**caller \_\_\_\_\_ and \_\_\_\_\_ callee**

None of the given

There \_\_\_\_\_ are \_\_\_\_\_ just \_\_\_\_\_ block \_\_\_\_\_ processing \_\_\_\_\_ instructions \_\_\_\_\_ in \_\_\_\_\_ 8088.

Select correct option:

6

**5**

4

3

\_\_\_\_\_ decrements SP (the stack pointer) by two and then transfers a word from the source operand to the top of stack now pointed to by SP.

Select correct option:

**PUSH**

POP

CALL

None of the Above

The operation of PUSH is not similar to CALL however with a register other than the instruction pointer.

Select correct option:

**True**

False

The direction of movement is controlled with the \_\_\_\_\_ in the flags register. If this flag is cleared the direction is from lower addresses towards higher addresses and if this flag is set the direction is from higher addresses to lower addresses.

Select correct option:

<b>Direction</b>	<b>Flag</b>	<b>(DF)</b>
------------------	-------------	-------------

Control	Flag	(CF)
---------	------	------

Carry	Flag	(CF)
-------	------	------

Non of above

Hexadecimal is the prevalent and standard format for representation of characters in computers.

Select correct option:

**True**

False

MUL (multiply) Instruction performs an unsigned multiplication of the source operand and the \_\_\_\_\_.

Select correct option:

**Accumulator**

Carry

Word  
Base

We can convert any digit to \_\_ by adding 0x30 in the digit.  
Select correct option:

Character

**ASCII**

EBCDIC

Standard Code

A typical stack is an area of computer memory with a fixed origin and a variable

**True**

False

Local variables should be created when the subroutine is called and discarded afterwards.

**True**

False

Both DS and ES can be used to access the video memory. However we commonly keep DS for accessing our data, and load ES with the segment of video memory.

**True**

False

Elements are removed from the stack in the reverse order to the order of their addition.

**True**

False

The Operation of Push is if "we push ax" then  $SP \leftarrow SP + 2$   $[SP] \leftarrow AX$

**True**

False

The operations of placing items on the stack and removing them from there are called push and ret.

**True**

False

A \_\_\_\_\_ is an area of memory that holds all local variables and parameters used by any function and remembers the order in which functions are called so that function returns occur correctly.

Instruction Pointer

**Stack**

Data Segment

Base Register

Stack is a data structure that behaves in a first in last \_\_\_\_\_ manner.

In

**Out**

Push

Add

RET do not pops the word at the top of the stack (pointed to by register SP) into the instruction pointer but increments SP by two.

True

**False**

--

Question No: 1 ( Marks: 1 ) - Please choose one

After

the execution of SAR instruction

▶ **The msb is replaced by a 0**

- ▶ The msb is replaced by 1
- ▶ The msb retains its original value
- ▶ The msb is replaced by the value of CF

**Question No: 2 ( Marks: 1 ) - Please choose one**

RETF

will pop the offset in the

- ▶ BP
- ▶ **IP**
- ▶ SP
- ▶ SI

**Question No: 3 ( Marks: 1 ) - Please choose one**

The

routine that executes in response to an INT instruction is called

▶ **ISR**

- ▶ IRS
- ▶ ISP
- ▶ IRT

**Question No: 4 ( Marks: 1 ) - Please choose one**

The

first instruction of "COM" file must be at offset:

- ▶ 0x0010
- ▶ **0x0100**
- ▶ 0x1000
- ▶ 0x0000

**Question No: 5 ( Marks: 1 ) - Please choose one**

“Far”

jump is not position relative but is \_\_\_\_\_

- ▶ memory dependent
- ▶ **Absolute**
- ▶ temporary
- ▶ indirect

**Question No: 6 ( Marks: 1 ) - Please choose one**

Only

\_\_\_\_\_ instructions allow moving data from memory to memory.

- ▶ **string**
- ▶ word
- ▶ indirect
- ▶ stack

**Question No: 7 ( Marks: 1 ) - Please choose one**

After

the execution of instruction “RET 2”

- ▶ **SP is incremented by 2**
- ▶ SP is decremented by 2
- ▶ SP is incremented by 4
- ▶ SP is decremented by 4

**Question No: 8 ( Marks: 1 ) - Please choose one**

DIV

instruction has

- ▶ **Two forms**
- ▶ Three forms
- ▶ Four forms
- ▶ Five forms

**Question No: 9 ( Marks: 1 ) - Please choose one**

When

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

- ▶ 8 bits
- ▶ 16 bits
- ▶ 32 bits
- ▶ 64 bits

**Question No: 10 ( Marks: 1 ) - Please choose one**

After

the execution of MOVS instruction which of the following registers are updated

- ▶ SI only
- ▶ DI only
- ▶ SI and DI only
- ▶ SI, DI and BP only

**Question No: 11 ( Marks: 1 ) - Please choose one**

In

8088 architecture, whenever an element is pushed on the stack

- ▶ SP is decremented by 1
- ▶ SP is decremented by 2
- ▶ SP is decremented by 3
- ▶ SP is decremented by 4

**Question No: 12 ( Marks: 1 ) - Please choose one**

When

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

- ▶ Divide logical error
- ▶ Divide overflow error
- ▶ Divide syntax error
- ▶ An illegal instruction

**Question No: 13 ( Marks: 1 ) - Please choose one**

In the

word designated for one screen location, the higher address contains

▶ **The character code**

- ▶ The attribute byte
- ▶ The parameters
- ▶ The dimensions

**Question No: 14 ( Marks: 1 ) - Please choose one**

Whic

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

▶ mov AX, 0xb008

mov ES, AX

▶ **mov AX, 0xb800**

**mov ES, AX**

▶ mov AX, 0x8b00

mov ES, AX

▶ mov AX, 0x800b

mov ES, AX

**Question No: 15 ( Marks: 1 ) - Please choose one**

In a

video memory, each screen location corresponds to

▶ One byte

▶ **Two bytes**

▶ Four bytes

▶ Eight bytes

**Question No: 16 ( Marks: 1 ) - Please choose one**

The

execution of the instruction "mov word [ES : 0], 0x0741" will print character "A" on screen , background color of the screen will be

▶ **Black**

▶ White

▶ Red

▶ Blue



**Question No: 17 ( Marks: 2 )**

**Why**

**is it necessary to provide the segment and offset address in case of FAR jump ?**

**Segment and offset must be given to a far jump. Because, sometimes we may need to go from one code segment to another, and near and short jumps cannot take us there. Far jump must be used and a two byte segment and a two byte offset are given to it. It loads CS with the segment part and IP with the offset part.**

**Question No: 18 ( Marks: 2 )**

**What'**

**s your understanding about Incrementing and Decrementing Stack?**

**Whenever an element is pushed on the stack SP is decremented by two and whenever an element is popped on the stack SP is incremented by two.**

**A decrementing stack moves from higher addresses to lower addresses as elements are added in it while an incrementing stack moves from lower addresses to higher addresses as elements are added.**

**As the 8088 stack works on word sized elements. Single bytes cannot be pushed or popped from the stack.**

**Question No: 19 ( Marks: 2 )**

**Num**

**ber2:**

**IF DF=0 what its represent and IF DF=1 what its represent ?**

**The direction of movement is controlled with the Direction Flag (DF) in the flags register. If this flag is cleared DF=0, the direction is from lower addresses towards higher addresses and if this flag is set DF=1, the direction is from higher addresses to lower addresses. If DF is cleared, DF = 0 this is called the autoincrement mode of string instruction, and if DF is set, DF=1, this is called the autodecrement mode. There are two instructions to set and clear the direction flag.**

**Question No: 20 ( Marks: 3 )**

**What**

**is the Difference between CALL and RET**

**The CALL instruction allows temporary diversion and therefore reusability of code.**

**The word return holds in its meaning that we are to return from where we came and need no explicit destination.**

**Therefore RET takes no arguments and transfers control back to the instruction following the CALL that took us in this subroutine.**

**Question No: 21 ( Marks: 3 )**

**Tell**

**the Formula to scroll up the screen**

**rep movsw**

**scroll up**

```
scrollup: push bp
mov bp,sp
push ax
push cx
push si
push di
push es
push ds
mov ax, 80 ; load chars per row in ax
mul byte [bp+4] ; calculate source position
mov si, ax ; load source position in si
push si ; save position for later use
shl si, 1 ; convert to byte offset
mov cx, 2000 ; number of screen locations
sub cx, ax ; count of words to move
mov ax, 0xb800
mov es, ax ; point es to video base
mov ds, ax ; point ds to video base
xor di, di ; point di to top left column
cld ; set auto increment mode
rep movsw ; scroll up
mov ax, 0x0720 ; space in normal attribute
pop cx ; count of positions to clear
rep stosw ; clear the scrolled space
pop ds
pop es
pop di
pop si
pop cx
pop ax
pop bp
ret 2
```

**Question No: 22 ( Marks: 5 )**

Expla

in how extended shifting is performed

**Using our basic shifting and rotation instructions we can effectively shift a 32bit number in memory word by word. We cannot shift the whole number at once since our architecture is limited to word operations. The algorithm we use consists of just two instructions and we name it extended shifting.**

```
num1: dd 40000
shl word [num1], 1
rcl word [num1+2], 1
```

The DD directive reserves a 32bit space in memory; however the value we placed there will fit in 16bits. So we can safely shift the number left 16 times.

The least significant word is accessible at num1 and the most significant word is accessible at num1+2.

The two instructions are carefully crafted such that the first one shifts the lower word towards the left and the most significant bit of that word is dropped in carry. With the next instruction we push that dropped bit into the least significant bit of the next word effectively joining the two 16bit words.

The final carry after the second instruction will be the most significant bit of the higher word, which for this number will always be zero.

Question No: 23 ( Marks: 5 )

Write

a subroutine to calculate the string length.?

**subroutine to calculate the length of a string**

**; takes the segment and offset of a string as parameters**

**strlen: push bp**

**mov bp,sp**

**push es**

**push cx**

**push di**

**les di, [bp+4] ; point es:di to string**

**mov cx, 0xffff ; load maximum number in cx**

**xor al, al ; load a zero in al**

**repne scasb ; find zero in the string**

**mov ax, 0xffff ; load maximum number in ax**

**sub ax, cx -- --**

**The first instruction of COM file must be at offset:**

**a. 0x0010**

**b. 0x0100**

c. 0x1000

d. 0x0000

2. The iAPX88 architecture consists of \_\_\_\_ registers.

a. 12

b. 14

c. 16

d. 18

3. When two 16-bit numbers are added the answer can be 17 bits long, this extra bit that won't fit in the target register is placed in the where it can be used and tested.

a. Carry flag

b. parity flag

c. auxiliary carry

d. zero flag

4. Only instruction allow moving data from memory to memory

a. string

b. word

c. indirect

d. stack

5. Allow changing specific processor behaviors and are used to play with it.

a. Special instructions

b. data movement instructions

c. program control instructions

d. arithmetic and logic instructions

6. 8088 is a 16-bit processor with its accumulator and all registers of \_\_\_\_.
- a. 32 bits
  - b. 6 bits
  - c. 16 bits
  - d. 8 bits
7. In the instruction `cmp ax,bx` the contents of \_\_\_\_ are changed.
- a. Ax
  - b. bx
  - c. cx
  - d. flag register
8. All the addressing mechanisms in iAPX88 return a number called \_\_\_\_ address.
- a. Effective
  - b. Faulty
  - c. indirect
  - d. direct
9. `Mov byte[num1],5` is \_\_\_\_ instruction.
- a. Legal
  - b. illegal
  - c. stack based
  - d. memory indirect
10. The memory address always moves from
- a. processor to memory
  - b. memory to processor

- c. memory to peripheral
- d. peripheral to processor

**11. An offset alone is not complete without**

- a. segment
- b. code label
- c. index register
- d. data label

**12. Code segment is associated to \_\_\_ register by default.**

- a. IP
- b. SS
- c. BP
- d. CX

**13. The iAPX88 processor supports \_\_\_ modes of memory access.**

- a. 5
- b. 6
- c. 7
- d. 8

**14. A 32-bit processor has accumulator of \_\_\_**

- a. 8 bits
- b. 16 bits
- c. 32 bits
- d. 64 bits

**15. After execution of JCXZ instruction CX will changed with flag affect.**

a. CF

b. OF

c. DF

d. None

16. Far jump is not position relative but is \_\_\_\_ memory

a. dependent

b. absolute

c. temporary

d. indirect

17. If the address of memory location num1 is 0117 and its content is 0005 then after execution of the instruction `mov bx, num1` bx will contain.

a. 0005

b. 0117

c. num1

d. 1701

18. Assembly the cx register is used normally as a \_\_\_\_ register.

a. Source

b. counter

c. index

d. pointer

19. Which is the unidirectional bus?

a. Control bus

b. data bus

c. address bus

d. none

20. \_\_\_ register holds the address of next instruction is to be executed

a. base pointer

b. code segment

c. source index

d. program counter

21. JC and JNC test the \_\_\_

a. flag

b. carry

c. parity

d. zero sign

22. Which bit sets the character "blinking" on the screen?

a. 5

b. 6

c. 7

d. 8

23. Mov ax, 5 has:

a. 1 operand

b. 2 operands

c. 3 operands

d. 4 operands

24. Index registers are used to store \_\_\_\_.



- a. data
- b. intermediate result
- c. address
- d. both data and address

**25. The bits of the \_\_\_ work independently and individually.**

- a. Index register
- b. base register
- c. flags register
- d. accumulator

**26. The operation of cmp is to:**

- a. subtract source from destination
- b. subtract destination from source
- c. add 1 to the destination
- d. add source and destination

**27. The registers IP, SP, BP, SI, DI and BX all can contain a \_\_\_ offset.**

- a. 8 bits
- b. 16 bits
- c. 32 bits
- d. 64 bits

**28. Regarding assembler, which statement is true:**

- a. assembler converts mnemonics to the corresponding OPCODE
- b. assembler converts OPCODE to the corresponding mnemonics
- c. assembler executes the assembly code all at once

d. assembler executes the assembly code step by step

29. If BB is the OPCODE of the instruction which states to “move a constant value to ax register”, the hexadecimal representation (using little Endian notation) of the instruction mov ax, 336 (150 in hexadecimal number system) will be:

a. 0XBB0150

b. 0X5001BB

c. 0X01BB50

d. 0XBB5001

30. Assembly language is:

a. low level programming language

b. high level programming language

c. also known as machine language

d. not considered closer to the computer

31. There are \_\_\_ registers in iapx88 architecture that can hold address of data.

a. 1

b. 2

c. 3

d. 4

32. Which part of this B80500 encoded instruction is an opcode?

a. Opcode is 0500

b. opcode is B80500

c. opcode is B8

d. opcode is 05

33. In \_\_\_ operation the carry flag is inserted from the right causing every bit to move one location to its left and the most significant bit occupying the carry flag.

a. Rotate through carry right(RCR)

b. Rotate through carry left(RCL)

c. Rotate left (ROL)

d. Rotate right (ROR)

34. In \_\_\_ operation, a carry flag is inserted from the left moving every bit one position to the right, with the right most bit is dropped in the carry flag.

a. RCR

b. ROL

c. RCL

d. ROR

35. CS and IP are both \_\_\_ bit registers.

a. 8

b. 4

c. 16

d. 32

36. Motorola follows \_\_\_.

a. big endian

b. little endian

c. both

d. None

37. Intel follows \_\_\_.

a. Little endian

b. big endian

c. both

d. None

**38. The shift logical right operation inserts.**

a. A zero from right

b. a zero from left

c. a one from right

d. a one from left

**39. Shifting the -15 two-bit SAR:**

a. -7

b. 7

c. -8

d. 8

**40. In left shift operation the most left bit \_\_\_\_**

a. will drop

b. will go to CF

c. will come to the right most

d. will be always 1

**41. To reserve 8-bits in memory \_\_\_\_ directive is used.**

a. db

b. dw

c. dn

d. dd

**42. In the mov ax, 5 5 is the \_\_\_\_ operand.**

- a. source
- b. destination
- c. memory
- d. register

**43. Which flags are not used for mathematical operations?**

- a. Carry, interrupt and trap flag
- b. direction interrupt and trap flag
- c. direction overflow and trap flag
- d. direction interrupt and sign flag

**44. The number of bits required to access 1MB of memory are**

- a. 16 bits
- b. 20 bits
- c. 32 bits
- d. depends on the processor architecture

**45. cx register is:**

- a. count register
- b. data register
- c. index register
- d. base register

**46. Which of the following is not true about registers?**

- a. their operation is very much like memory
- b. intermediate results may also be stored in registers
- c. they are also called scratch pad ram

d. none

47. Types of jump are:

a. short, near

b. short, near, far

c. near, far short, far

48. 8088 is a \_\_\_ bit processor.

a. 8

b. 16

c. 32

d. 64

49.  $|0| \rightarrow |1|1|0|1|0|0|0| \rightarrow |C|$  is an example of:

a. SHL

b. SHR

c. SAR

d. SAL

50. Memory is determined by \_\_\_\_\_ pair and not alone.

a. Segment-offset

b. segment-code

c. offset-code

d. offset addressing

51. In rotate right operation every bit moves one position to the right and the bit dropped from the right is inserted at the left and:

a. dropped in CF

b. moves to AL

c. don't go anywhere

d. none

**52. There are three buses to communicate the processor and memory named as:**

a. address, line, data bus

b. address, control, line bus

c. address, control, data bus

d. none

**53. The address bus is unidirectional and address always travel from processor to memory.**

a. True

b. False

**54. Data bus is bidirectional because:**

a. to way

b. data moves from both: processor to memory and memory to processor

c. data moves from both: processor to memory and memory to data bus

d. none

**55. Control bus:**

a. is one way

b. unidirectional

c. bidirectional

d. none

**56. A memory cell is an n-bit location to store data, normally \_\_\_\_ also called a byte.**

a. 4-bit

b. 8-bit

c. 16-bit

d. 32-bit

57. The number of bits in a cell is called the cell width. \_\_\_\_ define the memory completely.

a. Cell width and number of cells

b. cell number

c. width

d. height

58. For memory we define two dimensions. The first dimension defines how many \_\_\_\_ bits are there in a single memory cell.

a. Parallel

b. vertical

c. long

d. short

59. if ax contains decimal -2 and bx contains decimal 2 then after the execution of the instruction: `cmp ax, bx JA label`

a. jump will be taken

b. zero flag will set

c. ZF will contain value 4

d. Jump will not be taken

60. If D is 35 is shift to left 2 bits the new value:

a. 35

b. 70



c. 140

d. 17

61. In general, the memory cell cannot be wider than the width of the data bus.

a. True

b. False

62. \_\_\_ bus carries the intent of the processor that it wants to read or to write.

a. Control

b. Address

c. Data

d. Both control and data

63. The responsibility of sending the appropriate signals on the control bus to the memory is of the \_\_\_.

a. Control Bus

b. Peripherals

c. Processor

d. Memory

64. There are temporary storage places inside the processor called \_\_\_.

a. Memories

b. registers

c. peripherals

d. none

65. We can have precisely \_\_\_ address on the address bus and consequently precisely \_\_\_ element on the data bus.

a. one, one

b. one, two

c. two, one

d. two, two

66. Traditionally all mathematical and logical operations are performed on the \_\_\_\_.

a. Processor

b. register

c. Accumulator

d. None

67. Whenever we need access to a memory location whose address is not known until run-time we need an \_\_\_\_ register.

a. Index

b. Flag

c. accumulator

d. none

68. The instruction cli clears the \_\_\_\_ flag.

a. Interrupt

b. overflow

c. direction

d. carry

69. The instruction sti sets the \_\_\_\_ flag.

a. Carry

b. interrupt

c. parity

d. overflow

70. iAPX88 stands for: “Intel Advanced Processor Extensions 88”

71. iAPX386 is a \_\_\_\_ bit processor.

a. 8

b. 16

c. 32

d. 64

72. First processor 8080 was \_\_\_\_ bit processor.

a. 8

b. 16

c. 32

d. 64

73. The A of AX register stands for: Accumulator

74. The B of BX register stands for: Base

75. The C of CX register stands for: Counter

76. The D of DX register stands for: Destination

77. SI and DI are 16-bit and cannot be used as 8-bit register pairs like ax, bx, cx and dx.

a. True

b. False

78. Which of the following is true about Parity?

a. Parity is the number of “one” bits in a binary number

b. Parity is either odd or even

c. Both a and b

d. none

79. The collection of 4-bits is called.

a. Word

b. nibble

c. byte

d. none

80. During addition or subtraction if a carry goes from one nibble to the next which flag is set?

a. Auxiliary

b. carry

c. trap

d. parity

81. Which flag is set if the last mathematical or logical instruction has produced a zero in its destination.

a. Carry

b. parity

c. direction

d. zero

82. To start a comment \_\_\_\_ is used in assembly.

a. Colon (:)

b. hyphen (-)

c. semicolon (;)

d. asterisk (\*)

83. The process through which the segment register can be explicitly specified is known as:

- a. segment addressing
- b. segment override prefix
- c. segment indexing
- d. offset indexing

84. If BL contains 00000101 then after a single right shift. BL will contain:

- a. 00000011
- b. 00000010
- c. 10000011
- d. 10000010

85. In assembly language JNZ is used to:

- a. jump if the zero flag is not set
- b. jump if the zero flag is set
- c. jump if the sign flag is set
- d. jump if the sign flag is not set

86. SP is associated (by default) with:

- a. DS
- b. SS
- c. ES
- d. CS

87. The stack pointer contains the address of the word that is currently on \_\_\_\_.

- a. Top of the stack
- b. down of the stack

c. top and down both

d. any position in the stack

88. Which one of the following is an illegal instruction?

a. `Mov ax, bx`

b. `Mov ax, 65`

c. `Mov ax, [bx+bp]`

d. `Mov bx, 10`

SONU MUGH