CS401 COMPUTER ARCHITECTURE AND ASSEMBLY LANGUAGE PROGRAMMING MCQs

Question # 1 of 10 Total Marks: 1 When two devices in the system want to use the same IRQ line then what will happen? Select correct option: **An IRQ Conflict** An IRQ Crash An IRQ Collision An IRQ Blockage Ouestion # 2 of 10 Total Marks: 1 Hard disk MBR(Master Boot Record) is of size . Select correct option: 446 bytes 350 bytes 512 bytes 256 bytes Question # 3 of 10 Total Marks: 1 Which of the following IRQs is connected to serial port COM 2? Select correct option: IRQ 0 IRQ 1 IRQ 2 IRQ3 Question # 4 of 10 Total Marks: 1 The first sector on hard disk contains the Select correct option: Hard disk size Partition table Data size Sector size Question # 5 of 10 Total Marks: 1 In programmable interrupt controller which of the following ports is referred as a control port? Select correct option: 19 **20** 21 22 Question # 6 of 10 Total Marks: 1 Which of the following IRQs is used by the parallel port? Select correct option: IRQ 4 IRQ 5

IRQ₆

IRQ 7

Question # 3 of 10 Total Marks: 1

Ouestion # 7 of 10 Total Marks: 1 The programmable interval timer (PIT) has input frequency of Select correct option: 1.193MHZ 2.193MHZ 3.193MHZ 4.193MHZ Ouestion # 8 of 10 Total Marks: 1 CX register mostly use a Select correct option: **Counter register** Flag register Base register Desination register Question # 9 of 10 Total Marks: 1 The input frequency of the programmable interval timer (PIT) is Select correct option: **Fixed** Depends on processor clock Variable Depends on hardware attached Question # 10 of 10 Total Marks: 1 The thread registration code initializes the PCB and adds it to the linked list so that the will give it a turn. Select correct option: Assembler **Scheduler** Linker Debugger Question # 1 of 10 Total Marks: 1 INT13 --BIOS disk services" generally uses which register to return the 'error code'? Select correct option: **CF** DL AH ΑL Question # 2 of 10 Total Marks: 1 Operating system Organize data in the form of Select correct option: Folder Batch file None of the above

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
MOV
Question # 4 of 10 Total Marks: 1 Which of the following interrupts is Non maskable interrupt? Select correct option: INT 0 INT I INT 2 INT 3
Question # 5 of 10 Total Marks: 1
The maximum parameters a subroutine can receive are when all the general registers
are used.
Select correct option:
6
7 5
\mathcal{J}
4
Question # 6 of 10 Total Marks: 1 When the operand of DIV instruction is of 16-bits then implied dividend will be stored
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Question # 9 of 10 Total Marks: 1 The instruction to call any software interrupt is Select correct option:

```
GO INT interrupt number
       Call interrupt_number
       INT interrupt number
       Call INT interrupt number
Question # 10 of 10 Total Marks: 1
The INT 0x13 service 0x03 is use to
Select correct option:
       Get drive parameter
       Reset disk sector
       Write disk sector
       Read disk sector
Ouestion # 1 of 10 Total Marks: 1
Data bus is
Select correct option:
       Uni-directional
       Bi-directional
       Non-directional
       None of the given
Ouestion # 2 of 10 Total Marks: 1
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
Question # 3 of 10 Total Marks: 1
Peripheral address space is selected when which of the following instructions is given to the
processor?
Select correct option:
       MOV
       DEC
       IN
       ADD
Question # 4 of 10 Total Marks: 1
Creation of threads can be
Select correct option:
       Static
       Dynamic
       Both
       None of the above
Question # 5 of 10 Total Marks: 1
Which of the following IRQs is used by the parallel port?
Select correct option:
       IRQ 4
       5
       6
       7
```

```
Question # 6 of 10 Total Marks: 1
Priority of IRQ 0 interrupt is
Select correct option:
       Highest
       low
       medium
       None of the above
Question # 7 of 10 Total Marks: 1
The number of pins in a parallel port connector are?
Select correct option:
       20
       25
       30
       35
Question # 8 of 10 Total Marks: 1
The interrupt call loads new values in CS, IP and
Select correct option:
       DS
       SS
       FLAG
       Bookmark
Question # 9 of 10 Total Marks: 1
All the registers and stacks are saved in
Select correct option:
       Multitasking
       Multi Processing
       Function Call
       BIOS
Question # 10 of 10 Total Marks: 1
In 9 pin DB connector, which pin is assigned to TD.
Select correct option:
       1
       2
       3
       4
```

1.	Assen	ably language is not a low level language.
	a.	True
	b.	False
2.	In cas	e of COM File first command parameter is stored at offset of program
segme	nt prefi	
	a.	0x80 (Not Confirm)
	b.	0x82
	c.	0x84
	d.	0x86
3.	Addre	ss always goes from
	a.	Processor to meory
	b.	Memory to processor
	c.	Memory to memory
	d.	None of the above
4.	The so	ource register in OUT is
	a.	AL or AX
	b.	BL or BX
	c.	CL or CX
	d.	DL or DX
5.	By de	fault 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.	В
	c.	0
	d.	1
8.	On ex	ecuting 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

Question No: 1 (Marks: 1) - Please choose one To transfer control back the RET instruction take
 1 argument 1 argument 3 arguments No arguments
Question No: 2 (Marks: 1) - Please choose one In STOSB instruction SI is decremented or incremented by 4 1 2 3
Question No: 3 (Marks: 1) - Please choose one CMPS instruction subtracts the source locationfrom the destination location. DS:SI DS:DI ES:SI ES:DI
Question No: 4 (Marks: 1) - Please choose one 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 (Marks: 1) - Please choose one If "BB" is the OPCODE of the instruction which states to "move a constant value to All register", the hexadecimal representation (Using little Endian notation) of the instruction "Mot AX,336" ("150" in hexadecimal number system) will be: • 0xBB0150 • 0x5001BB • 0x01BB50 • 0xBB5001
Question No: 6 (Marks: 1) - Please choose one In the instruction MOV AX, 5 the number of operands are 1 2 3 4
Question No: 7 (Marks: 1) - Please choose one The maximum parameters a subroutine can receive (with the help of registers) are • 6

Question No: 8	((Marks: 1) - Please choose	one
In assembly the CX	K register is used norr	nally as a	_register.
source			
counter			
index			
pointer			
Question No: 9 All the addressing me		Marks: 1) - Please choose return a number called	
faultyindirect			
direct			
Question No: 10 When a 16 bit number AX BX CX DX	ber is divided by an 8	(Marks: 1) - Please choos bit number, the dividend v	
will dropwill go into	tion the left most bit _ CF to the right most	(Marks: 1) - Please choos	se one
Question No: 12 Suppose the decim new value becomes		(Marks: 1) - Please choo shifting its binary two bits	
Question No: 13 When divide overfi Hardware in Software in Processor Logical inte	nterrupt terrupt exception	(Marks: 1) - Please choo will be interrupted this type	
Question No: 14 Which mathematica	ion	(Marks: 1) - Please choos ant during the execution of	
Question No: 15		(Marks: 1) - Please choos	se one

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

(Marks: 1) - Please choose one

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: 1 (Marks: 1) - Please choose one

The physical address of the stack is obtained by

- ► SS:SI combination
- **►** SS:SP combination
- ► ES:BP combination
- ► ES:SP combination

Question No: 2 (Marks: 1) - Please choose one

After the execution of instruction "RET"

- ► SP is incremented by 2
- ► SP is decremented by 2
- ► SP is incremented by 1
- ► SP is decremented by 1

Question No: 3 (Marks: 1) - Please choose one

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

- ► The dimensions of the screen
- ► Character position on the screen
- ► Character color on the screen
- ► ASCII code of the character

Question No: 4 (Marks: 1) - Please choose one

REP will always

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

Question No: 5 (Marks: 1) - Please choose one

The basic function of SCAS instruction is to

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

Question No: 6 (Marks: 1) - Please choose one

Index registers are used to store

▶ Data

- ► Intermediate result
- Address
- ► Both data and addresses

Question No: 7 (Marks: 1) - Please choose one

The bits of the _____ work independently and individually

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

Question No: 8 (Marks: 1) - Please choose one

To convert any digit to its ASCII representation

- ► Add 0x30 in the digit
- ► Subtract 0x30 from the digit
- ► Add 0x61 in the digit
- ► Subtract 0x61 from the digit

Question No: 9 (Marks: 1) - Please choose one

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

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

Question No: 10 (Marks: 1) - Please choose one

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

- \triangleright AX
- ► AL
- ► AH
- **▶** DX

Question No: 11 (Marks: 1) - Please choose one

Which mathematical operation is dominant during the execution of SCAS instruction

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

Question No: 12 (Marks: 1) - Please choose one

If AX contains decimal -2 and BX contains decimal 2 then after the execution of instructions: CMP AX, BX JA label

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

Question No: 13 (Marks: 1) - Please choose one

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

- ► Second column of first row
- **▶** First column of second row
- ► Second column of second row

► First column of third row

Question No: 14	(Marks: 1)) - Please choose one

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

- ➤ ZF is cleared
- **▶ DF** is cleared
- ➤ ZF is set
- ▶ DF is set

Question No: 15 (Marks: 1) - Please choose one

The instruction ADC has Operand(s)

- **▶** 0
- **▶** 1
- **2**
- **3**

Question No: 16 (Marks: 1) - Please choose one

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

- **3**
- **•** 4
- **>** 5
- **▶** 6

Q=1:

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

0

- 1
- 2
- 3

O=2:

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

- 0417
- 0714
- 0741
- 0720

O=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

O=4

Which of the following is the pair of register used to access memory in string 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?
	which register is generally used to specify the services number of an interrupt:
	DX
	AX
	BX
	CX
	CA
	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
	<u>be</u>
•	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 intomajor 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.

•	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 <u>Highest</u> 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 <u>INT 1</u> 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
	14. IRQ for sound card is
	15. IRQ for floppy disk is <u>6</u>
•	16. IRQ with highest priority is Keyboard IRQ <u>Timer IRO</u> 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 <u>Count register</u> Data register Index register

Base 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 <u>5:6:5</u> 6:5:6 5:6:7 	
25. Division by zero is done by which interrupt. <i>Interrupt 0.</i>	
Question No: 1 (Marks: 1) - Please choose one	
After the execution of SAR instruction	
After the execution of SAR instruction ► The msb is replaced by a 0	
► The msb is replaced by a 0	
► The msb is replaced by a 0► The msb is replaced by 1	
 ► The msb is replaced by a 0 ► The msb is replaced by 1 ► The msb retains its original value 	
 ► 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 	

<u>▶ ISR</u>
► IRS
► ISP
► IRT
Question No: 4 (Marks: 1) - Please choose one
The first instruction of "COM" file must be at offset:
► 0x0010
$\begin{array}{c} \triangleright 0 \times 0100 \\ \triangleright 0 \times 1000 \end{array}$
Question No: 5 (Marks: 1) - Please choose one
"Far" jump is not position relative but is
memory dependentAbsolute
► temporary
► indirect
Question No: 6 (Marks: 1) - Please choose one
Only instructions allow moving data from memory to memory.
▶ string
▶ word
▶ indirect▶ stack
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

Which 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: 1 ___(Marks: 1) - Please choose one

Which of the following is not true about registers?

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

Question No: 2 (Marks: 1) - Please choose one

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

Stack segmentCode segmentData segmentExtra segment

Question No: 3 (Marks: 1) - Please choose one

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

- 16 bits rotation
- 1 bit rotation
- 17 bits rotation
- 8 bits rotation

Question No: 4_ (Marks: 1) - Please

choose one The 8088 stack works on

- Word sized elements
- Byte sized elements
- Double sized element
- Nible sized element

Question No: 5 (Marks: 1) - Please

choose one

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

- 2
- 4
- 8
- 16

Question No: 6 (Marks: 1) - Please

INT 10 is used forservices.

- RAM
- Disk
- BIOS video
- DOS video

Question No: 7 (Marks: 1) - Please choose one

Priority of IRQ 0 interrupt is

- medium
- high
- highest
- low

Question No: 8 _ (Marks: 1) - Please choose one

Threads can have function calls, parameters andvariables. • global • local • legal • illegal Question No: 9 (Marks: 1) - Please choose one How many prevalent calling conventions doexist • 1 • 2 • 3
• 4
VERY IMPORTANT
Question No: 10 (Marks: 1) - Please choose
one In 9pin DB 9 DSR is assigned on pin number • 4
• 5
• 6
• 7
Question No: 11 (Marks: 1) - Please choose one In 9pin DB 9 CTS is assigned on pin number 6 7 8 9
Ouestion No. 12 (Mawks. 1) Please aboose one
Question No: 12_ (Marks: 1) - Please choose one In 9pin DB 9 CD is assigned on pin number
• 1
23
• 4
Question No: 13_ (Marks: 1) - Please choose one
In 9pin DB 9 RD is assigned on pin number 1 2 3 4

Question No: 14 __ (Marks: 1) - Please choose one in device attribute word which of the following bit decides whether it is a charater

- device or a block device
- Bit 12 Bit 13
- Bit 14
- **Bit 15**

Question No: 15_ (Marks: 1) - Please choose one

Video services are classified into ______broad categories

- 3
- 4

Question No: 16 (Marks: 1) - Please choose

one In STOSB instruction, when DF is clear, SI

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

Question No: 17 (Marks: 1) - Please choose one The

process of sending signals back and forth is called

- Activity
- Hand-shaking
- Interruption
- Time clicking

Question No: 18 (Marks: 1) - Please choose one

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

- Divide overflow interrupt
- Debug interrupt
- Arithmetic overflow interrupt
- Change of sign interrupt

Question No: 19 (Marks: 1) - Please choose one

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

- IRQ 0
- IRQ 1
- IRQ 2
- IRQ 3

Question No: 20 (Marks: 1) - Please choose one

Which of the following interrupts is used for Arithmetic overflow

- INT 1
- INT 2
- INT 3

• INT 4

Question No: 21 (Marks: 1) - Please choose one

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

- IRQ 0
- IRQ 1
- IRQ 2
- IRQ 3

Question No: 22 __ (Marks: 1) - Please

choose one

An End of Interrupt (EOI) signal is sent by

- Handler
- Processor
- IRQ
- PIC

Question No: 23 _ (Marks: 1) - Please choose one

The source registers in OUT is

- AL or AX
- BL or BX
- CL or CX
- DL or DX

Question No: 24 (Marks: 1) - Please choose one

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

- 19
- 20
- 21
- 22

Question No: 25 (Marks: 1) - Please choose one

The number of pins in a parallel port connector are?

- 25
- 30
- 35
- 45

Question No: 26 (Marks: 1) - Please choose one

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

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

Question No: 27 (Marks: 1) - Please choose one

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

Question No: 28 (Marks: 1) - Please choose of A 32bit address register can access upto	
Question No: 29 (Marks: 1) - Please choose of In NASM an imported symbol is declared with the symbol is declared with the • Global directive, External directive • External directive, Global directive • Home Directive, Foreign Directive • Foreign Directive, Home Directive	while and exported
Question No: 30 (Marks: 1) - Please choose one Single step interrupt is	
Question No: 1 (Marks: 1) - Please choose one Sun SPARC Processor has a fixed • 16bit • 32bit • 64bit • 20bit	_ instruction size.
Question No: 2 (Marks: 1) - Please choose one When the subprogram finishes, the the stack and transfers control to that location. • RET instruction • CALL instruction • POP instruction • Jump instruction	retrieves the return address from

new number will become

Question No: 3 (Marks: 1)

357014017

 Please choose one A 32 bit address register can access upto of memory. 1 GB 6 GB 4 GB 2 GB
 Question No: 4 (Marks: 1) Please choose one The value of a segment register when the processor is running under protected mode is called segment descriptor segment selector global descriptor table protected register
Question No: 5 (Marks: 1) - Please choose one FS and GS are two in protected mode. • segment registers • segment selectors • stack pointers • register pointers
Question No: 6 (Marks: 1) - Please choose one IRQ 0 interrupt have priority • low • medium • highest • lowest
Question No: 7 (Marks: 1) - Please choose one IDT stands for • interrupt descriptor table • individual descriptor table • inline data table • interrupt descriptor table
Question No: 8 (Marks: 1) - Please choose one Every bit of line status in serial port conveys information. • different • same • partial • full

Question No: 9 (Marks: 1) - Please choose one

There are total	bytes in a standard floppy disk.
• 1444k	
• 1440k	
• 1280k	
• 2480k	
Question No: 10 (M	Tarks: 1)
- Please choose one	
	ed in bytes.
• 8	
• 16	
420	
■ 20	
	:
	ccessible via <u>I/O</u> ports <u>COM 1</u> is accessible via ports <u>OM 2</u> is accessible via 2F8 -2FF.
The first register at 3 buffer register if res	FF8 is the <u>Transmitter</u> holding register if written to and the receiver ad from.
available interrupt ar interrupt.	interest include 3F9 whose <u>Bit 0</u> must be set to enable received data and <u>Bit 1</u> must be set to enable transmitter holding register empty 1, I/O ports, COM2. bit 0, Buffer, 3FA)
 address bus.,data addressing bus.,data address bus.,data 	es to communicate the processor and memory named as a bus and data bus. data bus and data bus. amove bus and data bus. ta bus and control bus
Question # 2 The address bus is us 1): TRUE 2): FALSE	nidirectional and address always travels from processor to memory.
	n both, processor to memory and memory to processor, m both, processor to memory and memory to data Bus, en

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, normallyalso 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
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): opreations 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 # 22allow 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 ofregisters. 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 forbecause 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
0 1: 11:20
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): Pority Flag
2): Parity Flag3): Auxiliary Carry
4): Zero Flag
Correct Option: 1 From: Lecture 3
Correct Option: 1 110m: 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
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
O
Question # 42 The maximum memory iAPX88 can access is
1110 1110/1111/111 1110/1101 1 11 1100 0411 400000 10

,
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): efective
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

 equel memory overlapping segments segments hidding 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] 2mov ax, [num1]; load first number in ax 3mov bx, [num2]; load second number in bx 4add ax, bx
5int 0x21 67num1: dw 5 8num2: 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.
Question # 60 In "mov [SI], AX " is 1): Basef Register Indirect 2): Indirect 3): Indexed Register Indirect 4): Immediate Correct Option: 3 From: Lecture 8	Addressing Modes.
Question # 61 In " mov ax, [bx - Si] " is 1): Basef Register Indirect 2): Indirect 3): Direct 4): illegal Correct Option: 4 From: Lecture 8	ADDRESSING
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 2): index can't use as Memory Address 3): I don't Know 4): None of the Given Correct Option: 1 From: Lecture 8	Address
Question # 64 In JNE and JNZ there is difference for continuous co	only;
Question # 65 JMP is Instruction that on executing tak called 1): Jump	e jump regardless of the state of all flags is

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 = SRC2) : DEST != SRC 3): DEST < SRC 4): DEST > SRCCorrect Option: 1 From: Lecture 9 Ouestion # 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 = 02) : carry flag i.e CF = 13): 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 = SRC2) : DEST != SRC 3): UDEST? USRC 4): **DEST < SRC** Correct Option: 3 From: Lecture 9 Ouestion # 69 In the case of unassigned source and destination when subtracting and in the result ZF =0 AND CR=0 then 1): DEST = SRC2) : DEST != SRC 3): UDEST < USRC 4) : **UDEST** > **USRC** Correct Option: 4 From: Lecture 9 Ouestion # 70 In the case of unassigned source and destination when subtracting and in the result CR=0 then 1): DEST = SRC2) : 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 # 72This 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 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
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 sourse 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 interrupta. IRQ 0b. IRQ 1c. IRQ 2

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

d. IRQ 3

```
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.
        2
        3(correct)
   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 destinition is greater than
   source
   true
   .false
   Conditional jump can only:
1.
           Far
           short
           near
           all of the given
   q=2:
   Address is always go from:
           Processor to memory
2.
           Memory to processor
           Memory to memory
           None of given
   Q=3;
   Programmable interrupt controllers have two ports 20 and 21.....port 20 is a control port
   while port 21 is .....
           The interrupt make register
           Interrupt port
           Output port
           Input port
```

2.

3.

4.

1.

3.

4.

1.

2. 3.

4.

Q=4:

	In the instruction "move word[es:160],0x1230 represent the charechter
1.	A
2.	В
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
т.	Do una or
	Q=7:
	In case of COM file, first command line parameter is stored atoffset of program
	segment prefix'
1.	0x80
2.	0x82
2. 3.	0x82 $0x84$
<i>3</i> . 4.	0x86
ᅻ.	0x80
	Q=8:
	The INT 0x13 service 0x03 is use to
1.	Read disk sector
	Write disk sector
 3. 	Reset disk sector
<i>3</i> . 4.	
4.	Get drive parameters
	Q=9:
	After the execution of STOSWB, the CX wil be
1	Incremented by 1
1.	
2.	Incremented by 2
3.	Decremented by 1
4.	Decremented 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

Ouestion No: 17 (Marks: 1) Write any two control instructions. Question No: 18 (Marks: 1) RET instruction take how many arguments Question No: 19 (Marks: 2) Explain the fuction of rotate right (ROR) instruction Question No: 20 (Marks: 2) Describe the PUSH function Question No: 21 (Marks: 3) Write down the names of four segment registers? Question No: 22 (Marks: 3) For what purpose "INT 4" is reserved? Question No: 23 (Marks: 5) Given that [BX+0x0100] BX = 0x0100=0xFFF0Calculate the physical address Question No: 17 (Marks: 2) What is difference between SHR and SAR instructions? 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 (Marks: 2) For what purpose "**INT 1**" is reserved? Question No: 19 (Marks: 2) Define implied operand?

An implied operand means that it is always in a particular register say the accumulator. It needs to not be mentioned in the instruction.

Question No: 31 (Marks: 1)

Solution:

BIOS KEY BOARD SRVICES

Question No: 32 (Marks: 1

Give the name of any one VESA servic

Question No: 33 (Marks: 2)

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

Question No: 34 (Marks: 2)

What do these instructions do? write your answer in single line.

mov cx, 0xffff

loop \$

Question No: 35 (Marks: 3) Define the protected mode

Solution:

Question No: 36 (Marks: 3)

Write a program in assembly language to disable keyboard interrupt using PIC

mask register

Hint: Only five instructions are needed

Solution:

Question No: 37 (Marks: 3)

Read the following passage carefully and fill the blanks with proper words.

Note: Don't rewrite the passage just write the words in same order.

"BIOS sees the disks as a combination of sectors, tracks, and......, as a raw storage device without concern to whether it is reading a file or directory. provides the simplest and most powerful interface to the storage

medium. However this raw storage is meaningless to the user who needs to

store his files and organize them into......................."