



Virtual University

About Us

CS401
Solved Final Term Paper 4

Waqar.siddhu@gmail.com

Year
2017

For More Plz Visit

WWW.VirtualAcademyLive.com

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

In the Name of Allāh, the Most Gracious, the Most Merciful

Paper Pattern

MCQS 40 each 1 mark
Short 4 each 2 marks
Short 4 each 3 marks
long 4 each 5 marks

Question No : 1 of 52	Marks: 1 (Budgeted Time 1 Min)
The instruction mov ax, 0	
Answer (Please select your correct option)	
<input type="radio"/>	will set the ZF
<input checked="" type="radio"/>	will not set the ZF
<input type="radio"/>	is a mathematical instruction
<input type="radio"/>	is a logical instruction
Made by: Waqar Siddhu	

Question No : 2 of 52	Marks: 1 (Budgeted Time 1 Min)
In STOSB instruction, when DF is set, SI is	
Answer (Please select your correct option)	
<input type="radio"/>	incremented by 1
<input checked="" type="radio"/>	Incremented by 2
<input type="radio"/>	Decrement by 1
<input type="radio"/>	Decrement by 2
Made by: Waqar Siddhu	

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

The data on which we want to perform some operations is called

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Opcode

☒ Operand

☐ Operator

☐ Operation

Made by: Waqar Siddhu

Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

After the execution of instruction "RET 2"

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ SP is incremented by 2

☒ SP is decremented by 2

not sure

☐ SP is incremented by 4

☐ SP is decremented by 4

Made by: Waqar Siddhu

Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

RETF will pop the segment address in the

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☒ CS register

☐ DS register

☐ SS register

☐ ES register

Made by: Waqar Siddhu

Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

Suppose DH contains 10001010 and CL contains 3, what is the value of DH after the following instruction:
SHL DH, CL

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☒

01010000

☐

10001010

☐

00010100

☐

01010111

Made by: Waqar Siddhu

Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

In STOSB instruction, SI is decremented or incremented by

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐

3

☐

2

☒

1

☐

4

Made by: Waqar Siddhu

Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

The OUT instruction uses _____ as source register.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☒

AL or AX

☐

BL or BX

☐

CL or CX

☐

DL or DX

Made by: Waqar Siddhu

Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

When two devices in the system want to use the same IRQ line then what will happen?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐

An IRQ Collision

☒

An IRQ Conflict

☐

An IRQ Crash

☐

An IRQ Blockage

Made by: Waqar Siddhu

Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐

3

☐

4

☐

5

☒

6

Made by: Waqar Siddhu

Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

Sign flag is set to _____ for positive numbers

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☒

0

☐

+1

☐

0 or 1

☐

1

Made by: Waqar Siddhu

Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

Computer Architecture and Assembly Language Programming is a course that is designed to study _____

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

- ☐ Hardware only
- ☐ Software only
- ☒ Computer system more closely
- ☐ Computer Graphics

Made by: Waqar Siddhu

Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

IBM PC has separate memory address space and peripheral address space. Peripheral address space is selected when _____ instructions is given to the processor.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

- ☐ IN
- ☐ ADD
- ☐ MOV
- ☐ DEC

Made by: Waqar Siddhu

Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

The parallel port connector is called _____

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

- ☒ DB-25
- ☐ BD-25
- ☐ DB-24
- ☐ BD-24

Made by: Waqar Siddhu

Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

The Single step interrupt is _____

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Hardware interrupt

☒ Like divide by zero interrupt

☐ Like divide by 1 interrupt

☐ Like divide by 2 interrupt

Made by: Waqar Siddhu

Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ are not used in mathematical operations.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Carry, Interrupt and Trap flag

☒ Direction, Interrupt and Trap flag

☐ Direction, Overflow and Trap flag

☐ Direction, Interrupt and Sign flag

Made by: Waqar Siddhu

Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

In graphics mode a location in video memory corresponds to a _____ on the screen.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ line

☒ dot

☐ circle

☐ rectangle

Made by: Waqar Siddhu

Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ third

☐ fourth

☐ first

☒ second

Made by: Waqar Siddhu

Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

The value of AH register in the write Graphics pixel service is _____.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☒ 0Ch

☐ 0Bh

☐ 1Ch

☐ 2Ch

Made by: Waqar Siddhu

Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

INT 21 service 01H is used to read character from standard input with echo. It returns the result in _____ register.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☒ al

☐ bl

☐ cl

☐ bh

Made by: Waqar Siddhu

Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

VESA (an organization) organizes 16 color bits for every pixel in _____ format.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ 5:5:5

☒ 5:6:5

☐ 5:5:6

☐ 5:6:6

Made by: Waqar Siddhu

Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

VESA stands for _____

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Variable Electronics Standards Association

☒ Video Electronics Standards Association

☐ Video Energy Standards Association

☐ Vega Energy Standards Association

Made by: Waqar Siddhu

Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

IDTR is a _____ register.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ 16 bit

☐ 20 bit

☐ 32 bit

☒ 48 bit

Made by: Waqar Siddhu

Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

In Motorola 68K processors, _____ registers can hold addresses in indirect memory accesses:

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☒ A0-A7

☐ B0-B7

☐ C0-C7

☐ D0-D7

Made by: Waqar Siddhu

Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

Motorola 68K processors have _____ 32 bit general purpose registers.

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ 32

☐ 64

☐ 8

☒ 16

Made by: Waqar Siddhu

Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

In Computer Architecture, RISC stands for _____

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ Reversed Instruction Set Computer

☐ Reversed Instruction System Computer

☒ Reduced Instruction Set Computer

☐ Reduced Instruction System Computer

Made by: Waqar Siddhu

Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

In Computer Architecture, CISC stands for _____

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☒ Complex Instruction Set Computer

☐ Complex Instruction System Computer

☐ Correct Instruction Set Computer

☐ Correct Instruction System Computer

Made by: Waqar Siddhu

Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

Video services are exported via

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ INT 7

☒ INT 10

☐ INT 9

☐ INT 8

Made by: Waqar Siddhu

Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

BIOS sees the disks as

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ logical storage device

☒ raw storage device

☐ in the form of sectors only

☐ in the form of tracks only

Made by: Waqar Siddhu

Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following gives more logical view of the storage medium ?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☒ DOS

☐ RAM

☐ ROM

☐ BIOS

Made by: Waqar Siddhu

Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

In 9 pin DB-9, which pin number is assigned to DSR (Data Set Ready) ?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ 4

☐ 5

☒ 6

☐ 7

Made by: Waqar Siddhu

Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

In 9 pin DB-9, which pin number is assigned to RTS (Request To Send) ?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ 5

☐ 6

☒ 7

☐ 8

Made by: Waqar Siddhu

Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

In 9 pin DB-9, which pin number is assigned to CTS (Clear To Send) ?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ 6

☐ 7

☒ 8

☐ 9

Made by: Waqar Siddhu

Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

In 9 pin DB-9, which pin number is assigned to RD (Received Data) ?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ 1

☒ 2

☐ 3

☐ 4

Made by: Waqar Siddhu

Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

In 9 pin DB-9, which pin number is assigned to TD (Transmitted Data) ?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

☐ 1

☐ 2

☒ 3

☐ 4

Made by: Waqar Siddhu

Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

In 9 pin DB-9, RI (Ring Indicator) is assigned on pin number _____

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

6

7

8

9

Made by: Waqar Siddhu

Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

The table index (TI) is set to _____ to access the GDT (Global Descriptor Table).

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

1

0

-1

-2

Made by: Waqar Siddhu

Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following interrupt is used in debugging with the help of trap flag?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

INT 0

INT 1

INT 2

INT 3

Made by: Waqar Siddhu

Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

In Programmable Interrupt Controller, which one of the following ports is referred as interrupt mask register?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

19

☐

20

☐

21

☒

22

☐

Made by: Waqar Siddhu

Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

Which one of the following interrupts is used for arithmetic overflow?

Answer (Please select your correct option)

WWW.VirtualAcademyLive.com

INT 4

☒

INT 1

☐

INT 2

☐

INT 3

☐

Made by: Waqar Siddhu

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

Define following abbreviation:

- Dw

Answer (Please click here to Add Answer)

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

What is the purpose of Triple fault ?

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com



Made by: Waqar Siddhu

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Write an assembly instruction that will allocate space for 32 PCBs?

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com



Made by: Waqar Siddhu

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

In order to switch "Protected Mode", which bit of CR0 (Control Register 0) is needed to be turn on?

Answer ([Please click here to Add Answer](#))

WWW.VirtualAcademyLive.com



Made by: Waqar Siddhu

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

Identify the technique in which user feels that programs are running at the same time and elaborate that how this technique works ?

Answer (Please [click here](#) to Add Answer)

WWW.VirtualAcademyLive.com



Made by: Waqar Siddhu

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

How arithmetic operations instructions are written by Sun SPARC and by Motorola 68K Processor? State your answer with at least two examples from each processor.

Answer (Please [click here](#) to Add Answer)

WWW.VirtualAcademyLive.com



Made by: Waqar Siddhu

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

What are the results after performing the following instructions, where ax = 00110011 and bx = 00010001

1. and ax,bx
2. or ax,bx
3. xor ax,bx

Answer (Please [click here](#) to Add Answer)

WWW.VirtualAcademyLive.com



Made by: Waqar Siddhu

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

What are the values required for following registers to write a character on serial port using INT 21?

AH =
AL =
DX =

Answer (Please [click here](#) to Add Answer)

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Which instruction makes trap flag zero? If there is no such instruction then how this task is performed?

Answer (Please [click here](#) to Add Answer)

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Which processor's instruction set allows the following instructions and describe what task will be performed by each of these instructions?

CLR (A3)
EXG D0, D2
MOVE B (A1), (A2)
MOVEA (2222) L, A4

Answer (Please [click here](#) to Add Answer)

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

How these instructions are legal or illegal. If illegal tell the reason and how can we make this legal, if legal then what these instructions do.

- 1. mov ax, bx
- a. mov 10, ax
- b. mov bx, [num2]
- c. mov [num1], [num2]

Answer (Please [click here](#) to Add Answer)

WWW.VirtualAcademyLive.com



Made by: Waqar Siddhu

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

- a. mov ax, bx
- b. mov 10, ax
- c. mov bx, [num2]
- d. mov [num1], [num2]
- e. add [num2], [num1]

Answer (Please [click here](#) to Add Answer)

WWW.VirtualAcademyLive.com



Made by: Waqar Siddhu

Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Write an assembly program attributes for loading program using INT 21 Service.

Answer (Please [click here](#) to Add Answer)

WWW.VirtualAcademyLive.com



Made by: Waqar Siddhu