



Virtual University

About Us

CS401  
Solved Final Term Paper 8

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Year  
2017

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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)

In STOSW instruction, when DF is clear, SI is

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

☐ Incremented by 1

☐ Incremented by 2

correct

☐ Decrement by 1

☐ Decrement by 2

Made by: Waqar Siddhu

Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following IRQs is connected to serial port COM 1?

Answer ( Please select your correct option )

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☐ IRQ 4

correct

☐ IRQ 5

☐ IRQ 6

☐ IRQ 7

Made by: Waqar Siddhu

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following IRQs is used by the parallel port?

Answer ( Please select your correct option )

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☐ IRQ 4

☐ IRQ 5

☐ IRQ 6

☐ IRQ 7

correct

Made by: Waqar Siddhu

Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

The programmable interval timer (PIT) has input frequency of

Answer ( Please select your correct option )

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☐ 1.193MHZ

correct

☐ 2.193MHZ

☐ 3.193MHZ

☐ 4.193MHZ

Made by: Waqar Siddhu

Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following interrupt is of highest priority interrupt?

Answer ( Please select your correct option )

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☐ Key board interrupt

☐ Timer interrupt

correct

☐ INT 2

☐ INT 3

Made by: Waqar Siddhu



Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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☐

Shl AX, 1

☐

Shr AX, 1

correct

☐

NOT AX

☐

AND AX, 0xFFFF

Made by: Waqar Siddhu

Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

In the rotate right operation every bit moves one position to the right and the bit dropped from the right is inserted at the left and:

Answer ( Please select your correct option )

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☐

The dropped bit is also copied in CF

correct

☐

The dropped bit is also copied in AF

☐

The dropped bit is also copied in ZF

☐

The dropped bit is not copied in any flag

Made by: Waqar Siddhu

Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

In string instructions, CX is always

Answer ( Please select your correct option )

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☐

Decrement by 1

☐

Decrement by 2

☐

Increment by 1

correct

☐

Increment by 2

Made by: Waqar Siddhu



Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

The word size of the processor is defined by the size of \_\_\_\_\_

Answer ( Please select your correct option )

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☒ Its accumulator register

☐ Address bus attached

~~X~~ correct

☐ Memory attached

☐ Control Bus

Made by: Waqar Siddhu

Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ cannot predict which element the \_\_\_\_\_ needs, at a particular instant of time.

Answer ( Please select your correct option )

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☐ Control bus, Memory

☐ Processor, Control bus

☐ Processor, Memory

☐ Memory, Processor

correct

☐ Control bus, Memory

Made by: Waqar Siddhu

Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

The time interval between two timer ticks is \_\_\_\_\_

Answer ( Please select your correct option )

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☐ 40ms

☐ 45ms

☐ 50ms

☐ 55ms

correct

Made by: Waqar Siddhu

Question No : 12 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 )

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☐ third

☐ fourth

☐ first

☐ second

correct

Made by: Waqar Siddhu

Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

A thread can not be created \_\_\_\_\_

Answer ( Please select your correct option )

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☐ in static way

correct

☐ in dynamic way

☐ in static and dynamic way at the same time

☐ manually

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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

The space where the current state of a task is stored is called \_\_\_\_\_

Answer ( Please select your correct option )

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☐ control block

☐ Process control block

correct

☐ stack

☐ hard disk

Made by: Waqar Siddhu



Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

VESA stands for \_\_\_\_\_

Answer ( Please select your correct option )

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☐ Variable Electronics Standards Association

☐ Video Electronics Standards Association

correct

☐ Video Energy Standards Association

☐ Vega Energy Standards Association

Made by: Waqar Siddhu

Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

VBE stands for \_\_\_\_\_, as proposed by VESA (an organization).

Answer ( Please select your correct option )

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☐ Video BIOS Extensions

correct

☐ Video BIOS Emergence

☐ Video Binary Extensions

☐ Video Blocked Extensions

Made by: Waqar Siddhu

Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

In Computer Architecture, the Protected mode is different from \_\_\_\_\_

Answer ( Please select your correct option )

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☐ Programming mode

☐ Real time mode

correct

☐ Visualization mode

☐ Memory mode

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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

In Assembly language programming, how many prevalent Calling Conventions do exist ?

Answer ( Please select your correct option )

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1

☐

2

☐

correct

3

☐

4

☐

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Question No : 19 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 )

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A0-A7

☐

correct

B0-B7

☐

C0-C7

☐

D0-D7

☐

Made by: Waqar Siddhu

Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

Motorola 68K processors have \_\_\_\_\_ 32 bit general purpose registers.

Answer ( Please select your correct option )

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32

☐

64

☐

8

☐

16

☐

correct

Made by: Waqar Siddhu



Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

Which byte of the DOS input buffer holds the number of characters actually read on return?

Answer ( Please select your correct option )

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☐ First Byte

☐ Second Byte

correct

☐ Third Byte

☐ Last Byte

Made by: Waqar Siddhu

Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

Threads can have function calls, parameters and which type of variables?

Answer ( Please select your correct option )

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☐ global

☐ local

correct

☐ legal

☐ illegal

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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

In multi-tasking programming, all threads are

Answer ( Please select your correct option )

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☐ Independent to each other

correct

☐ Dependent on each other

☐ Not executed

☐ Not scheduled

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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

Video services are exported via

Answer ( Please select your correct option )

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☐ INT 7

☐ INT 10

correct

☐ INT 9

☐ INT 8

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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

The maximum memory, IAPX88 can access is \_\_\_\_\_.

Answer ( Please select your correct option )

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☐ 1 KB

☐ 64 KB

☐ 1 MB

correct

☐ 64 MB

**Made by: Waqar Siddhu**

Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

In direct addressing the memory address is \_\_\_\_\_ and is given in the instruction.

Answer ( Please select your correct option )

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☐ Fixed

correct

☐ Empty

☐ A variable

☐ A register

**Made by: Waqar Siddhu**

Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

Instruction "mov ax, bl" has a \_\_\_\_\_ problem.

Answer ( Please select your correct option )

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☐ size mismatch

correct

☐ value mismatch

☐ operand mismatch

☐ memory mismatch

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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

The jump "JC" is taken when

Answer ( Please select your correct option )

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☐ CF=1

correct

☐ CF=0

☐ ZF=0

☐ ZF=1

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Question No : 29 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 )

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☒ DOS

☐ RAM

☐ ROM

☐ BIOS

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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

The serial port connection is a ----- connector

Answer ( Please select your correct option )

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☒ 9 pin DB-9

☐

☐ 8 pin DB-9

☐

☐ 3 pin DB-9

☐

☐ 9 pin DB-5

☐

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 RTS (Request To Send) ?

Answer ( Please select your correct option )

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☐ 5

☐

☐ 6

☐

☐ 7

☐

correct

☐ 8

☐

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 CTS (Clear To Send) ?

Answer ( Please select your correct option )

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☐ 6

☐

☐ 7

☐

☐ 8

☐

correct

☐ 9

☐

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Question No : 33 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 )

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☐ 6

☐ 7

☐ 8

☒ 9

correct

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

8088 is a .....

Answer ( Please select your correct option )

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☒ 16 bit processor

☐ 32 bit processor

☐ 64 bit processor

☐ 128 bit processor

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

AX register in extended 32 bit register is renamed as \_\_\_\_\_

Answer ( Please select your correct option )

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☐ AXE

☒ EAX

☒ AAX

☐ XAX

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Question No : 36 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 )

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☐ 1

☒ 0

☐ -1

☐ -2

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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

In 68K processors there is a ..... program counter (PC) that holds the address of currently executing instruction.

Answer ( Please select your correct option )

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☐ 8 bit

☐ 16 bit

☒ 32 bit

☐ 64 bit

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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

An 8 x 16 font is stored in \_\_\_\_\_ bytes.

Answer ( Please select your correct option )

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☐ 2

☐ 4

☐ 8

☒ 16

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Question No : 39 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 )

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☐ INT 0

☒ INT 1

☐ INT 2

☐ INT 3

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Question No : 40 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 )

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☐ 19

☐ 20

☒ 21

☐ 22

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Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

Device drivers are operating system extensions which extend its services to new devices. Describe the structure of "Device Driver File" which is used for device management.

Answer ( Please click here to Add Answer )

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Normal Arial 12 B I U

Made by: Waqar Siddhu



Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

With reference to branching technique used in assembly language programming, write any two control instructions.

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

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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

How local thread variables are created and accessed ?

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

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

What are the following statements represent?

gdt: dd 0x00000000, 0x00000000

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

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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

What are the important "command codes" in request header of device driver?

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

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

In order to access Video memory in high resolution (more than a megabyte MB), what standard we have to use?

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

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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Describe "Indexed Register Indirect + Offset" addressing mode with an example.

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

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

With reference to the multitasking program "TSR caller". Describe what task will be performed by each of these instructions?

- `mov al, [chars+bx]`
- `mov [es:40], al`
- `inc bx`

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

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

How many types of interrupt are used for writing debugger and also elaborate functionality of these interrupts with proper explanation?

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

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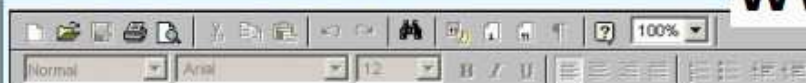
Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

What are the contents at the starting position of the file designated as device driver and mention important attributes of this driver file?

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

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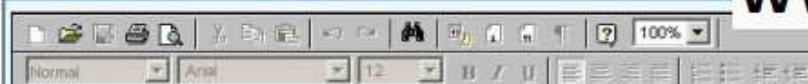
Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

At which location interrupt gate descriptor table is stored and describe the structure of this table with an example?

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

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Give the new values of AX and DX for each of the following instructions, or write if the overflow occurs.

- b. DIV BX, if DX contains 0000h, AX contains 0007h, and BX contains 0002h
- a. DIV BX, if DX contains 0000h, AX contains FFFFh, and BX contains 0010h

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

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