

VIRTUAL UNIVERSITY OF PAKISTAN

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CORRECT ANSWER SOLVED BY HADI
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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

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WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 1 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ PUSH AX



correct

☐ Mov Stack, AX

☐ ADD AX

☐ SEND AX

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Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ 5

☐ 4

☐ 3

☐ 2

correct

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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

The clear screen operation initializes whole block of video memory to

Answer (Please select your correct option)

☐ 0417

☐ 0741

☐ 0714

☐ 0174

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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

In the execution of the instruction "REP STOSB" STOSB will repeat itself

Answer (Please select your correct option)

☐ AX times

☐ BX times

☐ CX times

☐ DX times

correct

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Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

- ☐ Shl AX, 1
- ☐ Shr AX, 1
- ☐ NOT AX
- ☐ AND AX, 0xFFFF



correct

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Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ 0005

☐ 0500

☐ 5

☐ 005

correct

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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

In the instruction "CMP AX,BX" the contents of

Answer (Please select your correct option)

- ☐ AX are changed
- ☐ BX are changed
- ☐ CX are changed
- ☐ Flags register are changed

correct

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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

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

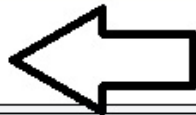
Answer (Please select your correct option)

☐ 6

☒ 7

☐ 8

☐ 9



correct

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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

To convert any digit to its ASCII representation

Answer (Please select your correct option)

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



correct

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Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

- ☐ Divide logical error
- ☐ Divide overflow error
- ☐ Divide syntax error
- ☐ An illegal instruction

correct

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Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

- ☐ Whole block
- ☐ A single cell
- ☐ A single bit
- ☐ Whole segment

correct

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Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ ES: DI

☐ ES: BP

☐ DS:BP

☐ DS:SI

correct

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Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ A4FB0

☐ 04872

☐ A9822

☐ A4872

correct

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Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ 3

☐ 2

☐ 1

☐ 0

correct

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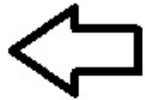
Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

Each screen location corresponds to _____ in a video memory.

Answer (Please select your correct option)

- ☐ One Byte
- ☒ Two Bytes
- ☐ Four Bytes
- ☐ Eight Bytes



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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ AX

☐ AL

correct

☐ AH

☐ DX

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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

The IAPX88 processor supports _____ memory addressing modes.

Answer (Please select your correct option)

☐ 5

☐ 6

☐ 7

☐ 8

correct

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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ ADDX

☐ JNC

☐ CMP

☐ JNZ

correct

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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

If the decimal number "35" is shifted by two bits to left, the new value will be _____

Answer (Please select your correct option)

☐ 35

☐ 70

☐ 140

☐ 17

correct

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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

While using STOSW, if DF=0 then

Answer (Please select your correct option)

- ☐ The value of SI will be incremented by one
- ☒ The value of SI will be incremented by two
- ☐ The value of SI will be decremented by one
- ☐ The value of SI will be decremented by two



correct

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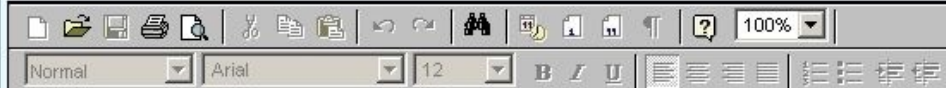
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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

What does the instruction "lds si, [bp+4]" do?

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



point ds:si to the first string

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Write down the procedure to clear the selective bit.

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



which bit we want convert into zero we make and opration on it whic
value we want to covert into zro we apply and opration with value 0 t
other valuse fil with one.

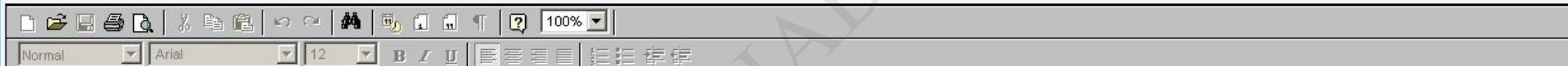
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Question No : 23 of 26 Marks: 3 (Budgeted Time 6 Min)

Marks: 3 (Budgeted Time 6 Min) 

How string instruction work on a block of data?

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



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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

What is wrong with this program?

```
; bubble sort subroutine taking parameters from stack  
[org 0x0100]
```

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



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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

In case of branching techniques used in Intel's architecture, which instruction is used to provide temporary diversion and how?

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



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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

What will be the affect of executing REPE and REPNE instructions on zero flag? With which instructions you can use both of these REPE and REPNE prefixes?

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



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