

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

We Deal All Kind of VU Project
(PHP, .NET, ANDROID, PYTHON)

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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)

In instruction ADC the operands can be

Answer (Please select your correct option)

- Two registers only
- Two register and one memory location
- CF and two other operands
- ZF and two other operands

correct

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Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

The attribute byte has

Answer (Please select your correct option)

- 32 possible background colors
- 16 possible background colors
- 8 possible background colors
- 4 possible background colors

correct

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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

Memory cell width refers to _____

Answer (Please select your correct option)

Number of bits in a cell

correct

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The maximum value that can be stored in a cell including sign-bit

The maximum value that can be stored in a cell excluding sign-bit

Address of that cell

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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is true about Interrupt Flag:

Answer (Please select your correct option)

It tells whether processor can be interrupted from outside or not

correct

It tells whether processor has interrupted or not

It is cleared when an interrupt occurs from outside

It is set when processor wants to generate an interrupt

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Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

8 bits

correct

16 bits

32 bits

64 bits

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Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

If $AX=5$, $BX=5$, CF and ZF are set, AF and DF contains zero then after the execution of instruction " $ADC AX, BX$ ", AX will contain the value:

Answer (Please select your correct option)

5

10

11

12

correct

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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

MS DOS uses ____ display mode.

Answer (Please select your correct option)

Character based

correct

Graphics based

Numeric based

Console based

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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

Each screen location corresponds to a word, the lower byte of this word contains ____

Answer (Please select your correct option)

The character code

correct

The attribute byte

The parameters

The dimensions

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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

`mov AX, 0xb008`
`mov ES, AX`

`mov AX, 0xb800`
`mov ES, AX`

correct

`mov AX, 0x8b00`
`mov ES, AX`

`mov AX, 0x800b`
`mov ES, AX`

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Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

In STOSW instruction, SI is decremented or incremented by

Answer (Please select your correct option)

1

2

correct

3

4

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Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

8088 processor divides interrupts into ____ classes.

Answer (Please select your correct option)

2

correct

3

4

5

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Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

MOVS instruction transfers a byte or word from which of the following source locations.

Answer (Please select your correct option)

ES:DI

DS:DI

ES:SI

DS:SI

correct

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Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

DI and BP

DI and SI

SI and BP

DS and SI

correct

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Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

When the instruction "CMP AX,BX" executes and after execution ZF is set, it indicates that

Answer (Please select your correct option)

- BX is greater
- Both AX and BX are equal
- ZF has no relation with CMP
- AX is greater

correct

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Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

Which Register(s) is/are changed during execution of the CALL instruction?

Answer (Please select your correct option)

IP only

IP and SP only

correct

SP only

BP and IP only

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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is an illegal instruction ?

Answer (Please select your correct option)

PUSH AX

PUSH BX

PUSH DL

PUSH DX

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Relating to the stack in 8088 architecture which of the following statement is true ?

Answer (Please select your correct option)

- Single word can not be pushed on the stack
- Single word can not be popped from the stack
- Single byte can not be popped from the stack
- Single quad can be popped from the stack

correct

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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

ASCII Stands for _____

Answer (Please select your correct option)

- American Standard Code for Information Interchange
- American Scientific Code for International Interchange
- American Standard Code for Intelligence Interchange
- American Scientific Code for Information Interchange

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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

In assembly the CX register is used normally as a _____ register.

Answer (Please select your correct option)

source

counter

correct

index

pointer

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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

How many characters were defined by standard ASCII?

Answer (Please select your correct option)

64



128



correct

256



512



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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

How 16-bit DIV operation is different from 32-bit DIV operation?

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



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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

Which of the following are bitwise operators?

AND
MOV
ADD
MUL

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



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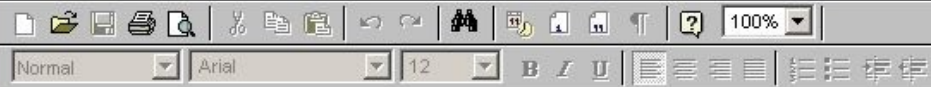
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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

How the value of Instruction Pointer register is saved and updated when a CALL instruction is executed?

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



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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

For what purpose "INT 1" is reserved ?

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



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Suppose AL contains 11001011b and CF= 1. Give the new contents of AL after each of the following instructions is executed. Assume the preceding initial conditions for each part of this question.

- . SHL AL,1
- a. SHR AL,1
- b. ROL AL,CL ;if CL contains 2
- c. SAR AL,CL ;if CL contains 2
- d. RCR AL,CL ;if CL contains 3

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



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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

Following instructions are taken from the program of printing a "hello word" at desired screen location. What functionality is achieved by the following code lines?

[Initially SI is pointing to the string and DI is pointing to the top left column of the screen]

```
mov al, [si]
mov [es:di], ax
add di, 2
```

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



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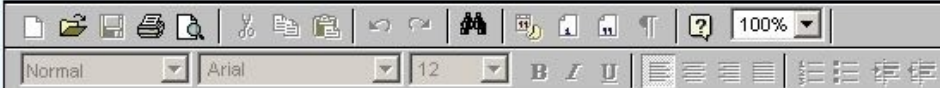
Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

[Initially SI is pointing to the string and DI is pointing to the top left column of the screen]

```
mov al, [si]
mov [es:di], ax
add di, 2
add si, 1
```

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



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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

OR
NOT
SUB
XOR
DIV
ADC

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



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