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CS401 Midterm Subjective Papers By Waqar Sidhu (File 1) Subjective

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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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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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

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
- SHR AL,1
- a. ROL AL,CL ;if CL contains 2
- b. SAR AL,CL ;if CL contains 2
- c. 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]

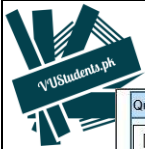
```
mov al, [si]
mov [es:di], ax
add di, 2
```

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)

Rich text editor toolbar with options: Bold, Italic, Underline, Text Color, Background Color, Bulleted List, Numbered List, Indent, Outdent, Link, Unlink, Undo, Redo, and a 100% zoom level. The text area is empty.

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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)

Rich text editor toolbar with options: Bold, Italic, Underline, Text Color, Background Color, Bulleted List, Numbered List, Indent, Outdent, Link, Unlink, Undo, Redo, and a 100% zoom level. The text area is empty.

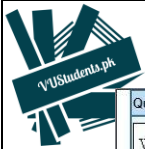
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(File 2)
Subjective



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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)

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point ds:si to the first string

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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

Write down the procedure to clear the selective bit.

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

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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)

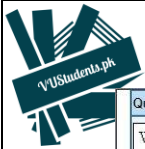
How string instruction work on a block of data?

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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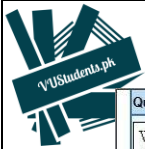
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(File 3)

Subjective

Question No : 21 of 26	Marks: 2 (Budgeted Time 4 Min)
Why BP (Base Pointer) default segment is SS (Stack Segment)?	
Answer (Please click here to Add Answer)	
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Question No : 22 of 26	
Marks: 2 (Budgeted Time 4 Min)	
Write a single instruction that can be used as an alternative of the following two instructions? DEC CX JNZ NextChar	
Answer (Please click here to Add Answer)	
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Question No : 23 of 26	
Marks: 3 (Budgeted Time 6 Min)	
What are the instructions use by the Assembly language for Permanent diversion and temporarily diversion?	
Answer (Please click here to Add Answer)	
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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

Which interrupts are generated as a result of
1. Dividing a number by zero
2. If the trap flag is set

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

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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

What is Divide Overflow Error? Complete the following code such that it will cause Divide Overflow Error.
mov BL, ____
mov AX, ____
DIV BL

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

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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

Write an assembly language program that clears the computer screen.

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

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(File 4)
Subjective

Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

Why BP (Base Pointer) default segment is SS (Stack Segment)?

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



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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

"Interrupts are asynchronous" What does it mean?

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



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Question No : 23 of 26

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)

















































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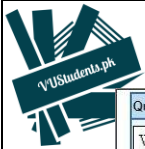






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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

What is the working of Screen Scrolling program and write the name of the most important instruction used in that program?

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

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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Write an assembly language program that display Zero (0) on the whole DOS screen.

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

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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

Write an assembly language program that clears the computer screen.

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

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The END



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