COAL ASSIGNMENT Date 39 Oct 18020

Page No.

| QUESTION #OI: |
|--|
| (i)DAssembly language is used for direct hardware |
| manipulation, we prefer assembly language over high level |
| languages when we want to work on low level systems |
| such as addressing performance issues. |
| Another application of assembly is writing operating systems |
| or draws where close interaction with hardware is required two king |
| on bas 01) |
| |
| (ii) Assembly language occurs at 3rd level right below tirgh- |
| touch language which is 4th buel after which comes ISA and Digital |
| Togic |
| |
| (iii) memory takes make machine cycles because they are not inside |
| cho onlike registers for which addressing time is reduced or |
| abolished also, registers are very fast and expensive than memory, |
| they one made upof materials (gold etc) which very quickly |
| transmits information or data |
| |
| (N) We our ride the declared size of an operand into smaller |
| pretmation through PTR operator. |
| Frampki Dass Date |
| Your Dward OFFAAG L |
| ade |
| move ax, PTP word var! : ax TAAG |
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| W a Indirect addressing |
| mov fax, (FSI), xaf vom |
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| QUESTION # 02 | | | The To | 41 |
| 1) TITLE My Program (Test-ogm) | | | | ME. |
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| Pane No. | 28 | Teacher's | Signature | |
| Patter 140. | | | | |

· data

· code

11:

Ligal LI

crit

main ENOP

FND moin.

call Domp Regs

Teacher's Sign

QUESTION # 03:-

The instruction exact from yole of push instruction works as follows. The EJP will fetch the instruction from instruction appeared. Then the Rish instruction is recorded by the decaded to there it has by bit portion. O hart, operands when in this one is EAX, to fetched and then values are obtained to the instruction is finally executed in ALU. O or mainly epu. (5 lastly in this case value of EAX will as wiffen in stack (temporary storage)

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| (6) | EAX | EDX | EC | X |
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| (V) | ZF | CF | SF. | PF |
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