

COAL
BS CS Fall 2022
Quiz 7

Time allowed: 10 min

Total marks: 20

Roll Number: _____

Name: _____

Q#1

Suppose

SI = 0300h, DI = 0400h, AX = 4142h, DF(direction flag) = 0

| Memory Address | 0300 | 0301 | 0400 | 0401 |
|----------------|------|------|------|------|
| Data | 10h | 15h | 20h | 25h |

Give source memory, destination memory, SI, DI and AX values after execution of these instructions. For each instruction take all above values before execution.

| | MOVSB | MOVSW | STOSB | STOSW | LODSB | LODSW |
|------|-------|-------|-------|-------|-------|-------|
| SI | 0301 | 0302 | 0300 | 0300 | 0301 | 0302 |
| DI | 0401 | 0402 | 0401 | 0402 | 0400 | 0400 |
| AX | 4142 | 4142 | 4142 | 4142 | 4110 | 1510 |
| 0300 | 10 | 10 | 10 | 10 | 10 | 10 |
| 0301 | 15 | 15 | 15 | 15 | 15 | 15 |
| 0400 | 10 | 10 | 42 | 42 | 20 | 20 |
| 0401 | 25 | 15 | 25 | 41 | 25 | 25 |