**CSE- 311, Microprocessors and Assembly language**

**Class Test # 3, Marks= 20, Time= 20 (Upload 10 minutes)**

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| 1. | **Find out the addressing modes of the following instructions both source and destination:**   1. XCHG AX, BX 2. CMP AX, [BX] 3. NOP 4. JMP L 5. ADD AX, A[SI]   Also give a single line definition of the addressing mode they belong to. | 10 |
| 2. | **Calculate the Physical address for the following memory operands, found in the above question #1 :**  Write your mobile number,  Where,  DS= First 4 digits of your phone number  SS= Last 4 digits of your phone number  CS= = Middle 4 digits of your phone number  ES= 0234H , SI= 0978H, BX= 0099H , BP= 0045H, A=12H | 10 |