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**CPE 221 Classwork 12: Machine Code in ARM**

Student Name (as in Canvas): _____

A Number: _____

Points: 20

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# 1    Identify Shift Amount                    (10 Points)

Determine the shift amount used in the instruction whose machine code is 0xE0443205

**Your Answer**

## 2    Encode MOV Instruction                              (5 Points)

Encode the assembly instruction `MOV FP, SP` into machine code.

**Your Answer**

## 3    Encode ROR Instruction                              (5 Points)

Encode the assembly instruction `ROR R0, R5, R7` into machine code.

**Your Answer**