8085 Instructions (78)

1. Data Transfer Group (12)

MOV
MVI
LXI
LDA
LDAX
STA
STAX
IN
OUT
LHLD
SHLD
XCHG

2. Arithmetic Group (14)

ADD
ADI
SUB

SUI

INR

DCR

INX

DCX

ADC

ACI

SBB

SBI

DAD

DAA

3. Logical Group (15)

ANA

ANI

ORA

ORI

XRA

XRI

CMA

CMP

CPI

RLC
RAL
RRC
RAR
CMC
STC

4. Branching Group (26)

JMP
JC
JNC
JZ
JNZ
JP
JM
JPE
JPO
CALL
CC
CNC
CZ
CNZ

CP

CM

CPE

CPO

RC

RNC

RZ

RNZ

RP

RM

RPE

RPO

5. Stack, I/O & Machine Control Group (11)

PUSH

POP

XTHL

SPHL

PCHL

DI

EI

SIM

RIM

NOP

HLT

ADDRESSING MODES IN 8086 (5)

- **Direct Addressing Mode**

LDA 9500H

SHLD C050H

IN 80H

- **Register Direct Addressing Mode**

MOV A, B

ADD D

ORA C

XCHG

- **Register Indirect Addressing Mode**

STAX B

LDAX D

MOV A, M

- **Immediate Addressing Mode**

MVI A, 32H

LXI B, 4567H

SUI 95H

XRI 55H

- **Implied or Inherent Addressing Mode**

NOP

HLT

CMA

EI