Scanned with CamScanner

U19 CS 076

U19CS076

3 a. LXI SP, XX99H
b. MVI A, 10H
LXI H XX90H
CLEAR: MVI M, OOH
JNX H
DCR A
JNZ CLEAR
JIV & CEPTIT
C. LXI B, 0237H
LXI D, 1242H
LXI H, 4087H
d. PUSH B
PUSHD
PUSH H
· .
e. For execution assume XX to be 20
Contents of [2099 H] -> 004
(2098H) → O2H
[2097H] > 37H
[2096H] > 12H
[2095H] > 42H
[2094H] -> 40H
[2093H] -> 87H
> 0.000 11 15 -200 24 1 2011
→ 2090 H to 2092H → 00H → 2099H to 209FH → 00H
→ 2099H to 209FH → 00H
94]; Proogram 1
LX1 H, 0000 H
PUSH H

POP PSW
MVI A OFFH
ADI OIH
PUSH PSW
POP H
mov A r
ANI ÓIH
OUT OOH
HLT
Outputs CY flag will be 1 as ADI affects CY flag and adding 1 to FFH will result in overflow hence CY is set to 1.
j Brogram 2
LX1 H, 0000 H
PUSH H
POP PSW
MUI A, FFH
INRA
NOP
000.1
PUSH PSW
POP H
Mov A, L
OUT OIH : OT PUSH PSW
ALT CY Car will be nest to Das INR A
Dutput: - CY flag will be set to 0 as INR A doesn't affect CY flag.
access affect of the