Md. Abdur Rashid O 19101008 Ang. No - 1(a) 200 X= 08 sequence = (x+15), (x+25) and (x+12) = 23,33,20 no of blocks in cache = 16 one-words 1) FOR block mapping: block adder cache block 23 (23 mod 16) - 7 33 (33 mod 16) = 1 20 (20 mod 16)= 4 address of nit contents of cache a For memony block of meterence acce saed miss 0 ---- 7 x are given below:

19101006 content of cacho address Hit 07 Memory OR atten reterence delock mi 69 0 . , - 1 - - 4 - - 7 a ccensed mig5 mem [23] 33 miss mem [337 mem [237 migg 20 mem [33] mem [20] monts)Ango 2 (d) il given, cache size = 32 wordy moun me moren = 542 words block size = 4 woods memory block = 5/2 = 128 block
cache line = 32 = 8 blocks

 $\frac{19101008}{2400}$ $\frac{19101008}{1999}$ $\frac{1}{1}$ $\frac{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1$

cache line = $9 = 2^2$, index = 2

block size = $9 = 2^d$ $0 \neq 4$ bet = 2 bits

memory y blocks = 10 p

memory whock 6 = 128 $= 2^{7}$

tag = 9-2-2=5

iii $PA = 69 = 2^{6}$ memory lists = 6 tog = 6 - 2 - 2 = 2cache lines = $1 = 2^{6}$ index= 2, $0 \neq + 6 \neq t = 2$ memorry blocks = $128 = 2^{7}$

190006 111 PA= 126= 27 mem liste = 7 , tag= 7-2-2=3 cache lines = 9 = 2 ender = 2, 0# set = 2 memorry blocks = 32 = 25 NI PA= \$0. 10 29 = 210 mem leits = 10, tag = 10-2-3=5 eache lines = 3 = 23 077get = 2, index = 3 memory 110 CK6 = 256 - 26 N(PA = 32 = 25 mem litte = To, cache lines = 1 tag = 5-2-1=2 index = 1, 0 # + got = 2 memory blocks= 3