Tovang Page No. Date / COA Assignment. Que 9.2 segments 1 2 3 4 5 6 7 8 9 10 11 121 T1 T2 P3 Py T5 T6 T7 T8 T1 72 T8 TY TS T6 T7 T8 T1 T2 T3 T4 T5 T6 T7 T8 3. 40 T1 T2 T3 ty T5 T6 T7 T8 TI T2 T3 T4 T8 T6 T7 18 5. TI T2 T3 T4 T5 T6 T7 6. (K+n-1) tp 6+1-8 13 cycles. Que 93 &= 6 segments m= 200 (K+n-1) => 6+200-1 = 205 cyclis. Que 9.4 tn = 50 ns K = 6 s = 1 mntn tp = loonm = 100 x SO n = loo15-99)x10 Smax to 250,5. = 4.76. 2048 = 16 chips Ou [2.] 128 2048 = 2" = 11 add ress wis (b) = 7 lines to address each 128 = 27 clip.

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@ 4x16 devoder.

Que 12.2 (a) B chips are needed with address lives

Connected in parallel.

(b) 16xB = 128 alips

Use 14 address unes (16K = 214) 10 lines sperify the chip address 4 lines are decoded inputs.

Que 1215 128K = 217

for a set of size of 2, the index address has 10 bits of auxmedate 2048 = 1024 words of carlie.

Size of cache memory = 1094 x & (7+32) = 1024×78

= 79872

Que 12.21

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