C\$305 - Homework 5 Euf cemre Durgut - 26493 1) a) m accepts the strings that start with a. m = {a'b] | ocis,] b) we aab (q, aab, zo) - (q, ab, zo) - (q, b, azo) - (q, e, zo) ~ (q, a, zo) → (q, zo) (q, a, zo) → (q, azo) (q, b, a) → (q, e) w=abb (q, abb, 20) - (q, bb, 20) -6/ L(m) (90, 0,20) - (9,20) (9,6,20) - No such transmon w = aba (90, aba, 20) - (9, 60,20) WEL(M) & L(m) (9, 9,20) - (9,20) (9,6,20) -> No such transition Final state / c) w=aaabb (q, aaabb, zo) - (q, aabb, zo) - (q, abb, azo) - (q, bb, aazo) - (q, b, azo) - (q, e, zo) (q,a,20)-1(q,20) (q,a,20)-1(q,070) (q,a,0)-1(q,00) (q,b,0)-1(q,e) (q,,b,0)-1(q,e) w= aaab - (q,,e, a20) WEL(M) 4 SAME UNTIL HERE 2) a) Q = = D (d Z = {a, 6} 2= 10,0,63 T= (a, b) F = 192 F = 191 S (q0, a, 20) → (q0, a20) d (90,0,20) → (90,020) S (90, 6, 20) -> (9, ,20) d (90, c, x) → (91, x) (x generic variable) s (q, b, zo) → (q, zo) S(q0, a, a) → (q0, aa) & (90, b, a) -1 (91, e) 5 (q0,0,0) -> (q0,00) S(q, b, a) → (q, e) & (q0, b, a) → (q1, e) d(9,10,20) → (92,0) = Final d(q, b, a) - (q, c) 8 (9,6,6) - (9,66)

c is missing .