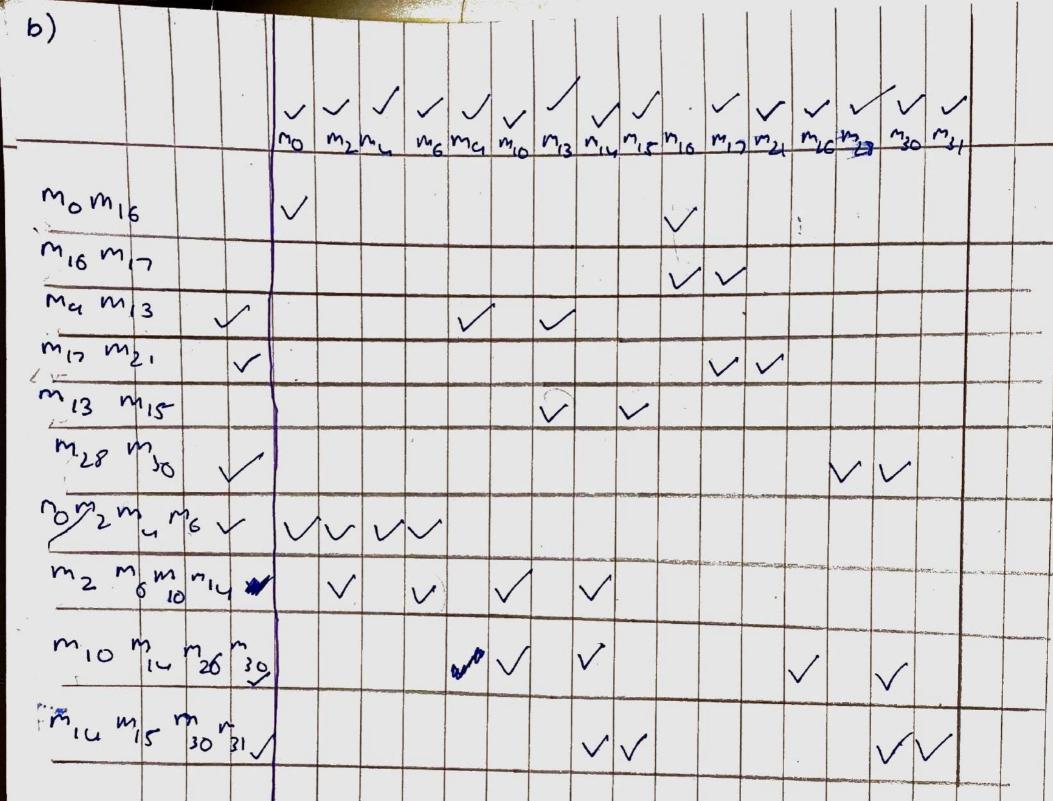
1		The second secon
		**
1-9	Ics 2019 Problem Sheet #18	
8.1.0	Maniem Agrawal CS '22°	,
m <sub>0</sub> → 00000	~ mo→ 00 000 ~ mom2 → 000 -0 ~ mom2 myny	300-0
m, >00100	~ m2 7 6010 ~ m0 m4 -> 00 - 00 ~ m0 m4 m2 ~ m4 + 00100 ~ m0 m16 -> 0000 ~ m0 m4 m2	m <sub>6</sub> -)000
mg = 60110	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	010
m10 > 01010	mg 01001 1 mu 116 - 801 - 0 mm m m	n ->010
m,4 = 01110	m <sub>6</sub> m <sub>1u</sub> -> 0-110 m <sub>6</sub> m <sub>r</sub>	\ m 2633
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	) -1-10
m21 -) 10 101	M26 311010 M17 M21 310-01 14 15	) - [1] -
m28 ->11100	1 m15-7 01111 / m1ms -> 0111 - / m1m3	m M,
ا ا ا ا ا در ا ا ا ا ا در	$m_{30} \rightarrow 1110$ $m_{14} m_{30} \rightarrow -1110$ $m_{20} m_{36} \rightarrow 11-10$ $m_{28} m_{30} \rightarrow 111-0$	A Company
	M <sub>15</sub> m <sub>31</sub> -> - 1111 V	
	m30 m31 -21111-	

Therefore the prime implicants are mom16 -) -0000 = BCDE MIG MIT -) 1000-= ABCD mg m13 -> 01=01 = AB DE = ABDE M17 M21 -> 10-01 = ABBE M13 m15 -) 011-1 PABCE m28 m30 -) 111-0 -) ABCE MOM2 My MO ) 00 -- 0 -) ABE M2 M6 M10 M -) OB -- 10 -) A DE MIOMIUM M30-)-1-10 >BDE. mum m m3, ) - 111- -> BCD



Therefore the essential prime implicants are Ma MI3 m m21 m28 m30 mom2 my m M10 M1 W 26 M30 MIU MIS MO M mo mis GR Ma m 13 Mn m21 m28 m30 mom2 my m6 M10 M14 M28 M30 MLU MIS M30 M31 M M 17 C) 99=(JANBMDNE)V(AAJBAJDNE) V (ANBACATE) V (TAATBATE) (BADATE) V (BACAD) V (7BA 7C/10/7E) L=(JANBNJB NE)V(ANJBNJDNE) OV (AMBACATE) V (TAMTBATE) V (BADATE) V(BACAB) V (BAA1BA7CA7D)