

SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution) Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai Accredited by NAAC-UGC with 'A++' Grade (Cycle III) & Accredited by NBA (B.E - CSE, EEE, ECE, Mech&B.Tech.IT) COIMBATORE-641 035, TAMIL NADU



to Minimization Boolean expotessions =-A + AB = A1) JHA JA (1 $A + AB = A \cdot I + AB$ = A (1+AB) : 1+A= 1 = A.1= A 2) $A + \overline{A}B = A + B$ ATAB = ATABT AB = A + B (A+A) = A+B 3) (A+B) (A+C) - A+BC (A+B)(A+C) = A.A + A.C+ A.B+B.C $= A + A \cdot B + A C + B C$ ATAB= A = A+AC+BC 1+ C= 1 = A (1+c) + BC = A+BC



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4) A. (A+B) = A A. (A+B) = A.A+AB= A + AB (BA + CAA(AtA) CA 5) A. (A+B) = AB 0 8 . $A \cdot (\overline{A} + B) = A \overline{A} + A \cdot B \qquad A \overline{A} = 0$ = AB ACTACTAG AB+AC+BC = AB+AC JAA + JA 6) = AB + AC + BC. 1 $(0 \cap (A)) (A + \tilde{A} = 1)$ = AB+ AC+ BC (A+A) (ALA) $= AB + \overline{A}C + ABC + \overline{A}BC \qquad (1+A=1)$ $= AB(1+C) + \overline{A}C(1+B)$ = AB+AC 200+(810) > 1 J 84+ J 84+ J 84+ J 84+ J 84 (F $(\overline{A}+\overline{A})$ \overline{J} \overline{O} + $(\overline{A}+\overline{A})$ \overline{J} \overline{O} = (B+B) -BC+BC $\overline{J} = \overline{J}(\overline{B} + \overline{B}) =$



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A BEDHABED = ABD 8) = $\overline{A}BD(\overline{c}+c)+ABD'$ (and) $= \overline{A}BD + ABD$ $= BD(\overline{A}+A)$ = 8 D 9) AC+C (A+AB) SATAA (ATA). = ACTACTABC $= AC+ \overline{A}BC$ $A+\overline{A}B = A+B$ $= C(A+\overline{A}B)$ = c (A+B) (A/A)) & +) A + GA 10) ABCTABCTABC = A(CTB) (311) SA + (Sti) 34 = A C (B+B) + AB Z SATOA .: = AC .1 + ABE $= A (C+B\overline{C}) \qquad (\overline{A}+\overline{A}B) = A+B)$ = A (C+B)(A)) A 1 (A/A) 55 (1913) 5 a + 5 g -- 5 (a + 3)