(2)F'(A,B,C)=(A+B'+C'A)(AB(B'+C'))(ABC) =(A+B'+C'A)(ABB'+ABC')(ABC) P5(b) =(A+B'+C'A)(ABC')(ABC) =0

P5(a) P4(b)

(3) A'BC+ABC'+A'BD=BD'+ABC' LEFT =ABC'+A'BC+A'BD RIGHT=ABC'+BD' =ABC'+BD'(A+A') =ABC'+ABD'+A'BD'

FALSE

(4) X'Z+X'Y+XZ=X'YZ'+X'YZ+X'Z LEFT = X'Z(Y+Y')+X'Y(Z+Z')+XZ(Y+Y') = X'YZ+X'YZ+X'YZ+X'YZ+X'Z'+XYZ+XYZ+XYZ = X'Y'Z + X'YZ'+X'YZ + XYZ + XYZ T RIGHT= X'YZ'+X'YZ+X'Z'+X'YZ + XYZ T = X'YZ'+X'YZ+X'YZ+X'YZ = X'YZ'+X'YZ+X'YZ'+X'YZ T FALSE	(5) (P+Q'+R)(P+Q'+R')=Q'+PR'+RP' LEFT =P+(Q'+R)(Q'+R') =P+Q'+RR' =P+Q' =P+Q' RIGHT=Q' + PR'+RP' =Q' + P + R'	2.6 (1)False X+Y' is a disjunction (2)True (3)False AB'C' is a conjunction (4)True (5)False (5)False (7)False	2.7 (1)Normal SOP (2)Neither one of (i)-(iv) (3)Neither one of (i)-(iv) (4)Canonical POS (5)Canonical SOP (6)Neither one of (i)-(iv) (7)Neither one of (i)-(iv)	2.8 (1)(A+B'+C)(A'+B)(B'+C') (2)AB'C+A'BC'+A'B' (3)(X+Y'+Z(X+Y'))(X'+Y') (4)(A+B+C'D')(A'+B'+C')(C+D'+AC') (5)(A+B')(C+D'+A'B')=1	2.9 (1)F'(A,B)=(A'+B)(A+A'B) = (A'+B)(A+B) T4(a) P4(b) =A'A +AB +B +A'B =B + A'B =B P5(b) T3(a)
X Y Z X X Z X X Y X X X X X X X X X X X	1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0	114004040	Z=X,Y+X,Z Z+Z,)+X,Z(Y+Y,)+Y,Z(X+X,) Z+X,Z,+X,YZ+X,YZ+X,Z+X,YZ,Z+X,Z-Z,Z+X,Z-Z,Z+X,Z-Z,Z-Z,Z-Z,Z-Z,Z-Z,Z-Z,Z-Z,Z-Z,Z-Z,Z-	$= \frac{x'}{Y^2} + \frac$	=(B'+CD) =(B'+C)(B'

P5(a) P4(b) T1(a) P5(a) P4(b)

(4)LET L=X'Z+X'Y+XZ

P4(a) P4(a) P5(b)