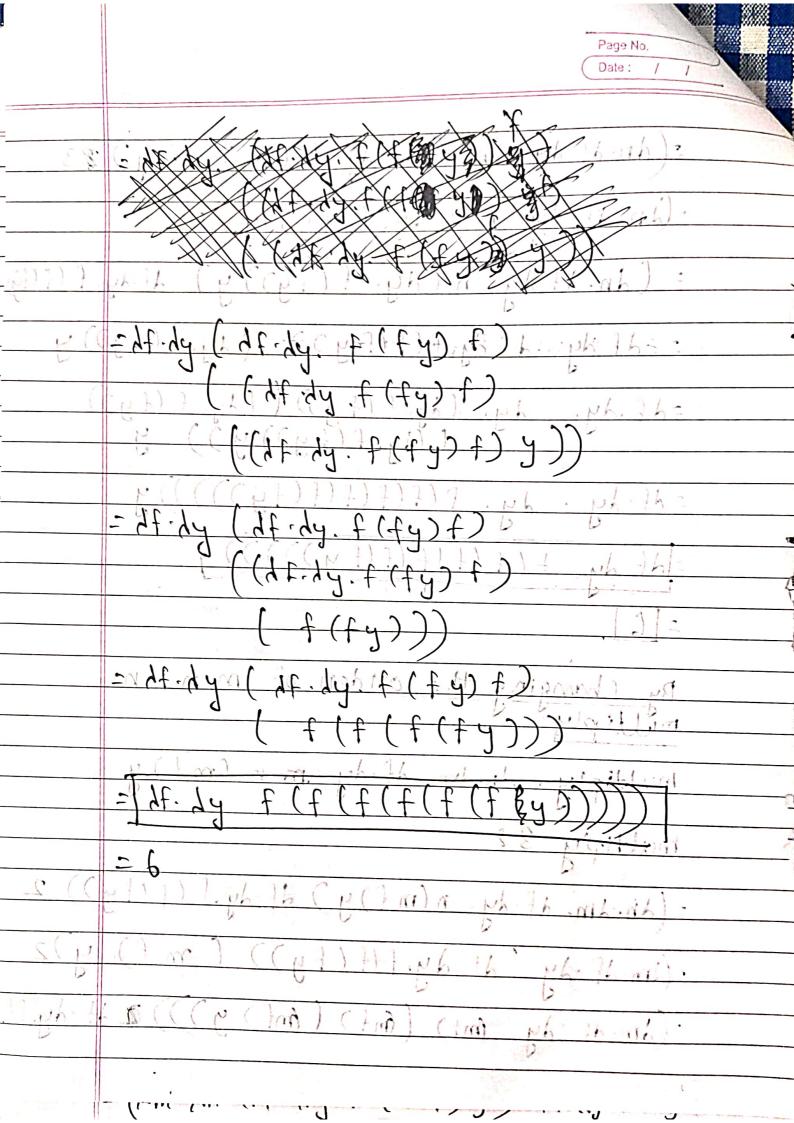
Tutorial-2-CSIV-312-Principles 6 Sarvasva Gupta

22/14086 CSE-04. 1. plus = dm.dn.df.dy. mf(nfy For m=3, n=2: $m = \lambda F \cdot \lambda y \cdot f \cdot (f \cdot (f \cdot y))$ $n = \lambda f \cdot \lambda y \cdot F \cdot (f \cdot y)$ => plus 3 2= ((dm: dn. df.dy. m f. (n.f.y)) 2 = (dn. df.dy. (df.dy. f (f (fy))) f(n fy)) 2 = df.dy. (df.dy. f (f (fy))) f((df.dy. f (fy))) f. = df ; dy. (df.dy. f (f (fy)) 14/1 = 8 35 plgillum 8. 56 y (han) al /ph 4 h. ah. ah) E (P7) 1 whith (P(7m) A. ph 7b-ah.mh) =

By interchanging the order of mn: -plus = dn. Am. df. dy. mf (n. f. by) = (dn. dm. df. dy m.f (n.f y)) 2.)3. = (1m. df. dy. mf ((1f. dy. f (fy)) fy)) 3 = (\lam. \lam. \la = df.dy. (df.dy.f.(f(fy)))- f. (f(fy)) = 4f. 4y. ((fr(+fy))) (f (rfy)) 2. multiply = dm.dn. df.dy.n (mf)y m=2= Af. Ay. f(fy) n=3= Af. Ay. f(f(fy)) multiply 2 3= - (dm. dn. df.dy. n (mf) y) 2 3 = (Am. An. df. dy.n (mf)y) Af.dy. F(fy)

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=(dn-df-dy: m (.df-dy. f (fy) f) y) 23 -(2n-2f.24 n (24. f (fy))y) 3 = (An. 17. Ay n (Ay. f (Fy)) y) Af. Ay. f (F(fg) = 2 f dy . df.dy. f(f(ffy))) (dy.f(fg)) y =df.dy. dy. (ly.f(fy)) ((ly.f(fy)) = 4F. /y. + (f(f(f(f))))) y = df dy, f (f (f (f (f (f y)))))) By changing the order of mining. multiply: dn.dm. df.dy pan (mf) y. muldiply 3-2 = (dn.dm. df.dy. n(mf)y) df.dy.f(f(fy)) 2 -(dm.df.dy df.dy.f(f(fy)) (m = (Am. Af. Ay (mf) (mf) (mf) y)) 2 Af. Ay. flf



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exponent = 2m. 2n. n m 3. exponent m.mh.nh =(1m. 2n. m (fy) dy, df. dwif (f =, 14: 142 = H (42

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exponent = An.dm. exponent 2 3 = (An. Am n m) (AF. Ay. F (fy)) (AF. Ay. (f (f(fo = (Am. (AF. Ly. f(fy)) m) (AF. Ly. (f(f(fy))) · (xf. dy. f (fy)) (2f. dy. (f(f(fy)))) = hy. (xf. hy. xf.(f(fy)) (2F. dy.) f(f(fy)) =dy.(df.;dy., forf (fg)) (dy.,dz.,yly.(yz)) = 24. (26.44. f (f(fy)) (22.14 (4 (42)) - Ly. (1 / Lw. f (f(fy)) (1/2 - 4 (4.62) = Ay . Nw. (Az. 19/19/147)

Page No. Date: / / - - Ly - Lw (y (y (y (y (y (y (y (y (y)))) = plys (multiply 23 (dm.dn.df.dy. n (mf) y =plus ((An. Af. dy. n (df-dy. - plus ((An. Af-dy. n (dy. f (fy)) y) AF. Ay. + = plus (& 2F.dy. (2g. F (fy))

= 6 = plus (AFAY FY(F(F(F(F(F(FY)))) =(dm-dn. df. dy: (mf)(nfg)) (4) My + (+1)

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