Assignment no 2

Name = Siddharth 5 Soni

ROILDO = 66

Class = BE IT

Sem - VII

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10 Solve the following with forward chaining or backward chaining or ossolution use predicate logic as language of knowledge Ocpoesentation clearly specify the tacts & Inference dule used. Q1) Example! EVERY child spes some Lith No Witch has both a brock cot & a pointed hot. Every witch is good or bod EVERY Witch that is but has a black cut 5) Excely witch that is seen by any child has a Pointed bal 6) Prove : every child gets condy P) fusts into fall D = x py (which (w) = has (y black (at)) ha 2)-E (4- POINTE hal) 2) Every wit I y (With (4) - 9000 /4) + bad (4) 3) EX (ISCU (x,y) -> (Witch (y) get (x, long) -4) EY ((Witch (y) = bac (y)) = Apo (y-) black bot) 5) Ey (sed (x, y) -> loscy, pointed hat) B) tol into (NF D= xay (child (x), witch (y) = sed (x, y))
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2) Vy (witch (y) => good (y))

Vy (witch (y) => bad (y))

2) EX (ses (x,y) => witch (a) => good (w))> EX [(see (x, good (y) -> gets (x, and y))] 5) Ey (Sech (x,y) -> ha (y. Pointed hall)]

- xy (sech (x,y) -> ha (y. black hall)] Sees (x,y) witch(4) vsca (x14) dy. - & good Vbadluf usech (x,(good) nsed (x,bod) has (x,2)
{ y/yod Vbod} 37/black cut V Pointed hot) Secn (x, good) usech (x, bad hus (good, pointed hok Vgd (x only) 5, n (1,406) x Sien (x, good) Who (good) a to Cricanti pointed bal) vigets Cx, 6 conda) get (Artoria) gels (Manda)

2) Example 2: Devely-boy od gibt is a child *x (boy (x) of girl (x) -> child (x) 3) * (child (v) - 2 gch (v, doil) or gets (v, train)

3) * (child (v) - 2 gch (v, doil) or gets (v, train)

4) for all z (child (2) and box (2) - 2 gch (v, train)

5) child (dam) - 2 gch (rum) (oal)

40 prove (child (dum) box (rum) (NE clanso - boy (1) or (bild (1 give (x) or child (x 1 (bi)2 (y) 08 gor (y, 20 dow) 0) gils (y, town) or gets (y, coa) 1 bas (w) or 1 gets (w, dois) 2 child (2) or 1 bad (2) or yes (2, (00)) I child (20m) - 2 gets (20m, (00))

Resolution: 1 child (2) or ! bad (2) or get (2, (00)) () bad (dam) I child (ram) or gets (ram, cool) Substituting 2 by Dame LOV (DAM) I child ram (substituting x by som)
I child (dom) or gets (dom, (aa)) child (ram) a) gets (ram itoal)

1 child (y) (or gets (y, 6201) or gets
2 child (ram) 9) gets (Jam, coa) 2) gets (Jam, doll) or gets (Jam, Loa) 3) 1604 (W) of 1 gets (Widon) 5) boy (ram) (ram doil) (sq Bizzituting of a am) 11) gets (ram, doly) or get (ram, train) 2) i gets (ram, doll 13) gets (20 m, 60 g) 3) get (ram (val) pine I had tran & pooked

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