K.G.C.E.

Assingnment NO 2

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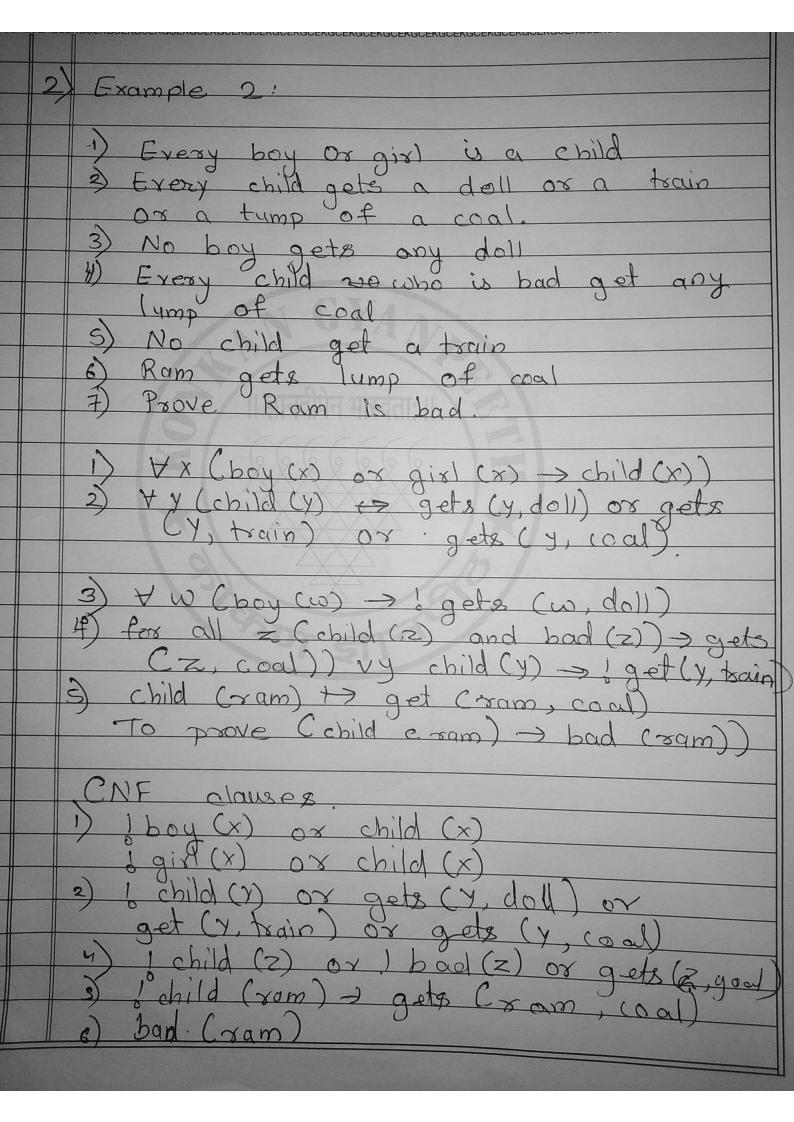
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Q1 Solve the following with forward chaining or backward chaining or resolution Cany one) use predicate logic as language of knowledge representation clearly

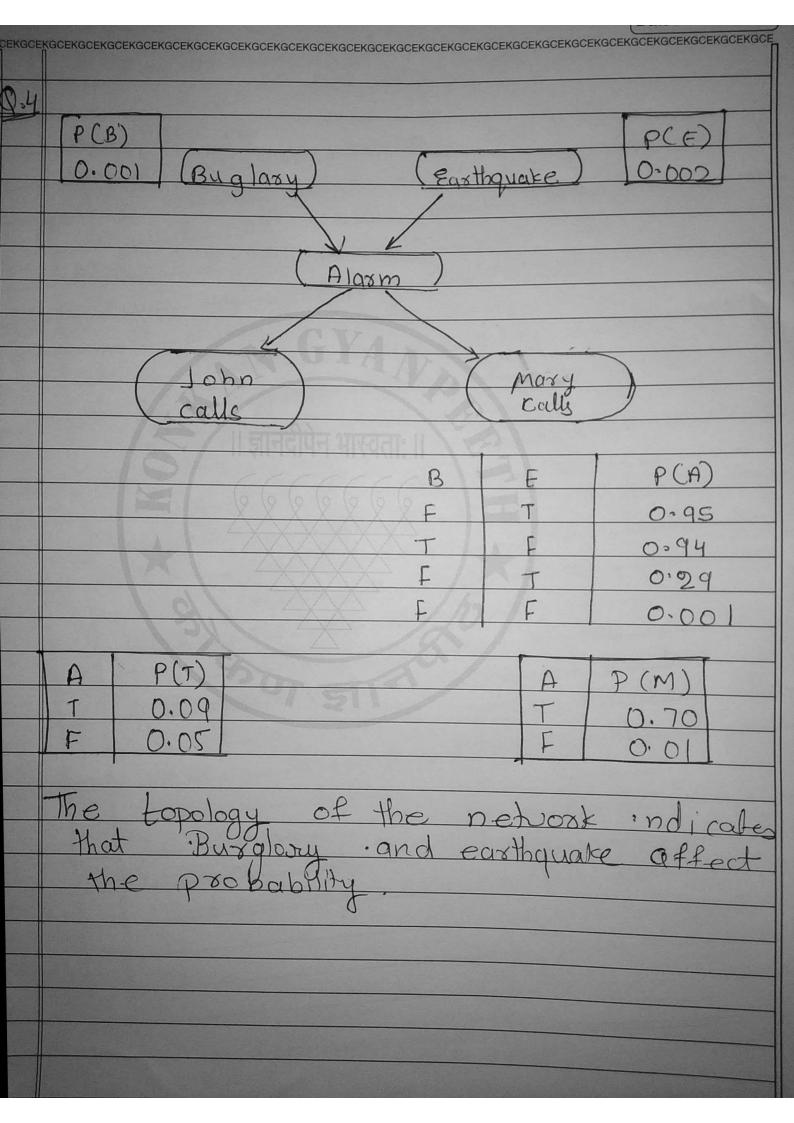
Specify the fact inference rule used Eg:-1 GVA Every child sees some witch not witch has both a black put & a pointed not Every witch is good or badd Every child who sees any good witch get candy Prove: Every child gets candy Facts into fal.

FXAy (child(x) , witch(y) -> sees(x,y)) ~ Jy (witch (r) -> has (y, black cat) 1 (Y, Pointed hat) Fy (witch (y) > good(y) v bad (y))

Ex (csees(x,x) > (witch (y) > good(y)) get (x, candy)



Date: STRIPS language Only allow positive literals in the states Can Suppost both positive l'negative For eq: A valid setence literal Intelligent Breuntiful for ego-Same Sentence is expressed STRIPS stand for Stands for Action Standard Research Description Institute Problem Language Solver Makes use of closed 3) Makes use of open world assumption (i,e) world assumption un methoned literals and (i)e) unmetimed literals: are unknown



of the alaxins going off. whether John and mary call depends only on alaxm They do not perceive ony burglanies directly they do not notice minor earthquakes and they do not confor before calling Mary listening to load music and John confusing phone or ringing to sound of alors can be read from network only implicity as uncertainly associated to calling at work. The probability acholly Summarise potentialy infinite Set of circum stances The alarm might full to go off due to high humidy power failure, dead buttery cut invier a dead mouse sterct unside the bell ; etc. The condition probability tables in new gives probability for values of random variable depending an combination of value for the parent nodes In general a table to a Boolean variable with k parents contain 2x independently specific probabilities.

