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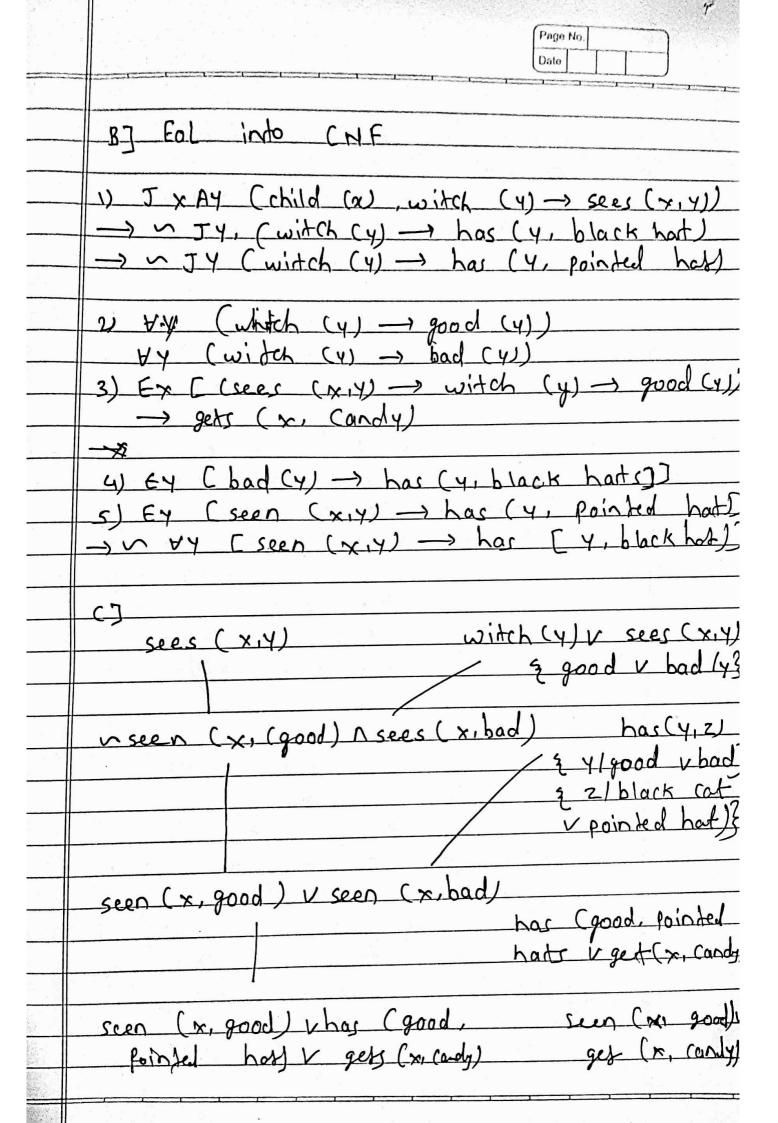
Q1 solve the following with forward chaining ng or backword chaining or resolution (any one) use predicate logic as language of knowledge representation clearly specify the facts & inference rule used. 1) Example 1:-1. Frey child hosees some witch NO witch bas both a black cat & a pointed hat. 2. Every with is good or bad.

3. Every child who sees any good with gets 4. Every with that is bad has a black cat.

5. Every with that is seen by any Child has a pointed hot. 6. prove: Every child gets candy. -> A) facts into fol 1) F x A y ( child (x), witch (y) -> sees (x,y) ~ IY (witch (y) -> has (y, black cat) 1 has (4. pointed hart) 2) Fy (which (4) -) good (4) V had (4))
3) Ex (csees (x,4) -> (witch (4) -> good(4) y get (x, condy)

y) Ey (cuitch (y) → bad (y)) → has (y) black hart )

5) Ey (sees (x,y) -> has (y, pointed hat)

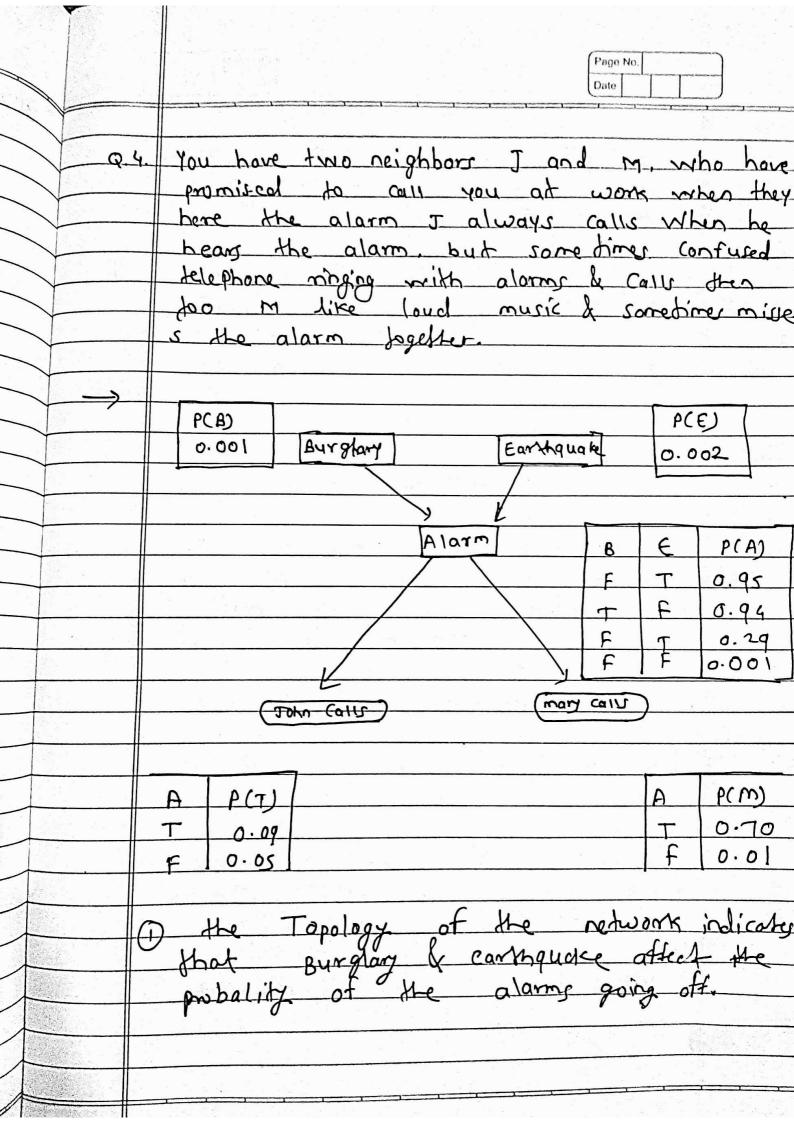


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2)	Example 2:
	1) Every boy or girl is a child
	2) Every child gets a doll or a train or
	a tump of a coal.
	3) No boy gets any doll.
3	4) Every Child who is bad gets any
Ŋ.N	lump of coal
	5) No child gets a train
	6) Rom gets jump of cool.
15 THE P. LEWIS CO., LANSING, MICH.	7) prove Ram is bad.
E = =	
$\rightarrow$	1) V x (boy (x) or girl (x) -> child (x))
· · · · · · · · · · · · · · · · · · ·	2) & y (child (y) -> gets (y, doll) or
21	gets (y, frain) or gets (y, coal)
	2) & w (boy (w) -) 1 gets (y, train)
	4) for all z (child (z) and bad (z))
	gets (2, coal)
2.00	A 4 child (4) -> ! gets (4. train)
	5) child (ram) -> gets (ram, Gal) To prove (child (ram) -> bad (ram))
1 2	To prove (child (nom) -> bad (nam))
w <sup>2</sup>	•
	CNF Clouses
	i) i boy (x) or child (x)
	i girl (x) or child (x)
	2) i child (4) or gets (4, doll) or
	gets (y, frain) or gets (y, coal)
	3)   boy (w) or   gets (w) doll) 4) ! child (2) or! bad (2) or gets (2, cod)
	4)! Child (2) 01: 010 (2)
	s) had (rom).
2013	) han there.
Security Control of the Control of t	

	4) ! child (2) or ! bad (2) or get (2, rad) 6) bad (ram)
	6) bad (ram)
	1) (hild (ram) or gets (ram, coal)  substituting 1 by ram  1) (a) ! boy (x) or child (x)
	substituting 1 by ram
	1) (a) ! boy (x) or child (x)
	604 (ram)
	3) (hild ram / substituting x by ram) 7)! (hild (ram) or gets (ram, (od))
т	7)! (hild (ram) or gets (ram, (od)
	8) (nin)
	9) gets (ram, & coal)
	2) I child (y) (or gets (y, doll) or gets
	9) gets (ram, od) 2) ! child (y) (or gets (y, doll) or gets (y, train) or gets (y, (od)
. jej	8) child (ram)
	10) get (ram doll) or gets (ram, traity
1 11 3	or gets (ran, (od)
	9) gets (ram, coal) 10) gets (ram, doll) or gets (ram, train)
	10) gets (nom, doll) or gets (nom, train)
	or get (rom, coal)
. 10	3) ! hay (w) or ! gets (w. doll)
1.	of how ( man)
per co	us get (ram, doll) or get (ram, fragh)
	121 gets (ram dell)
÷	13) gett (ram, (ad)
	6) Las ges (ram Cod)
	13) gets (ram (od)
	Hence, bad (ram) is proved.
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	QP. 2	Differentiale be	yn st	RTPS &	ADL.
		STRIPS language		la A	
		O Only allow positiv	9 0	Can sup	port hoth
1	Lij	literals in the str for eg: A valid se	ater po	sitive &	negative
+		empressed as -> Ind	s for elli- is	eg:- sam	e senfence
+		gent ^ Beautiful.			
1		Standard Reaseard Institute problems		stands for	Language
		makes use of cla world assumption ( an mentioned liter are false.	i.e.) u	wild Ass	e of open ump km (i:e.) literall an
	3	find ground lifer	J P va	re con f	ind qualified
		(mals are conju	- B.	toals mo	y involve
1 X 1		croals are conjunctions, for eg:-  enfelligent n  Beau titul)	for	eg: To	se liger
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	- They do not perceive any burlanies directs.  by they do not notice minor earth quakes and they do not confer before calling.
	& they do not notice minor earth quaker.
	and they do not confer before calling.
47	
	2) many listering to loud music & John Con- fusing phone ringing to round of alarm can be read from retwork only implicitly as uncertainly associated to calling at
	fusing phone migging to round of alarm
	can be read from retwork only implicitly
	as uncertainly associated to calling at
	work.
	3) The probability actually summarize potenti- ally infinite sets of citeurstances.
	ally infinite cets of circumstances.
	Q117 1111 11 10 2 2 2 3 3
	- The alarm might full to go off due to a high humidity. power failure, dead battery. Cut wires a dead mouse shick inside the bell etc.
	la alid humiditt. Power failure, dead
<u> </u>	There cut wires a dead mouse shick
	banking, and boll of
	inside the bear city.
	1) To condition mapability tables in No alog
31	probability for values of random variables
1	depending on combination at value for
	probability for values of random variables  depending on combination of value for  the parent nodes.
	s) Each row must be sum to la be cause entires represent enhaure set of cases
	entire represent enhance set of cases
	for variables.
ilo.	
	6) All variables are to Boolean.
- L. C.	
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