Assignme	ent	2
	A.	1

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Class : BE IT

Roll No: 60

Batch : Iz

Rub : IS

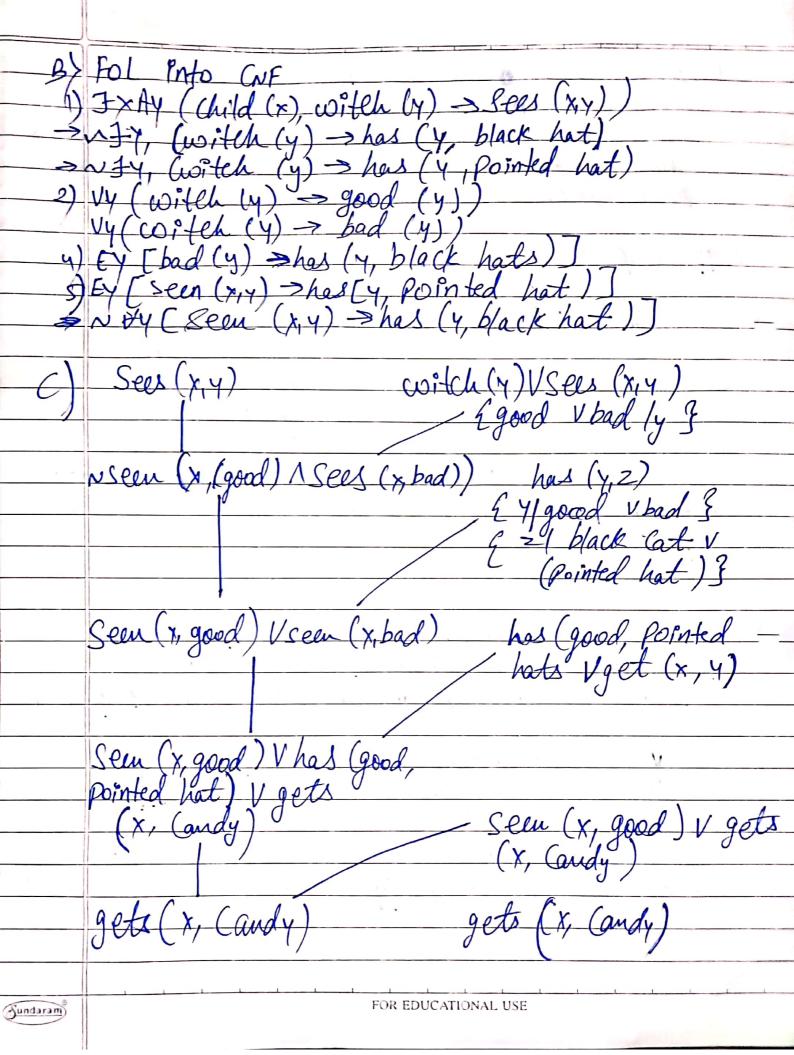
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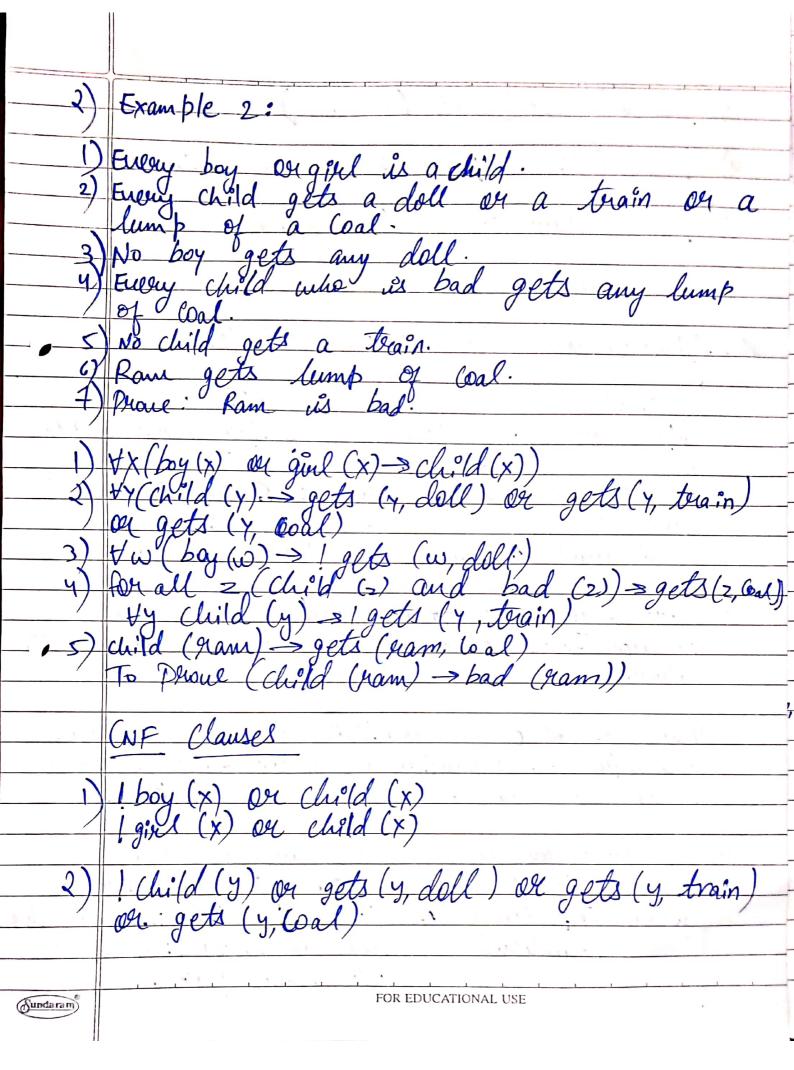
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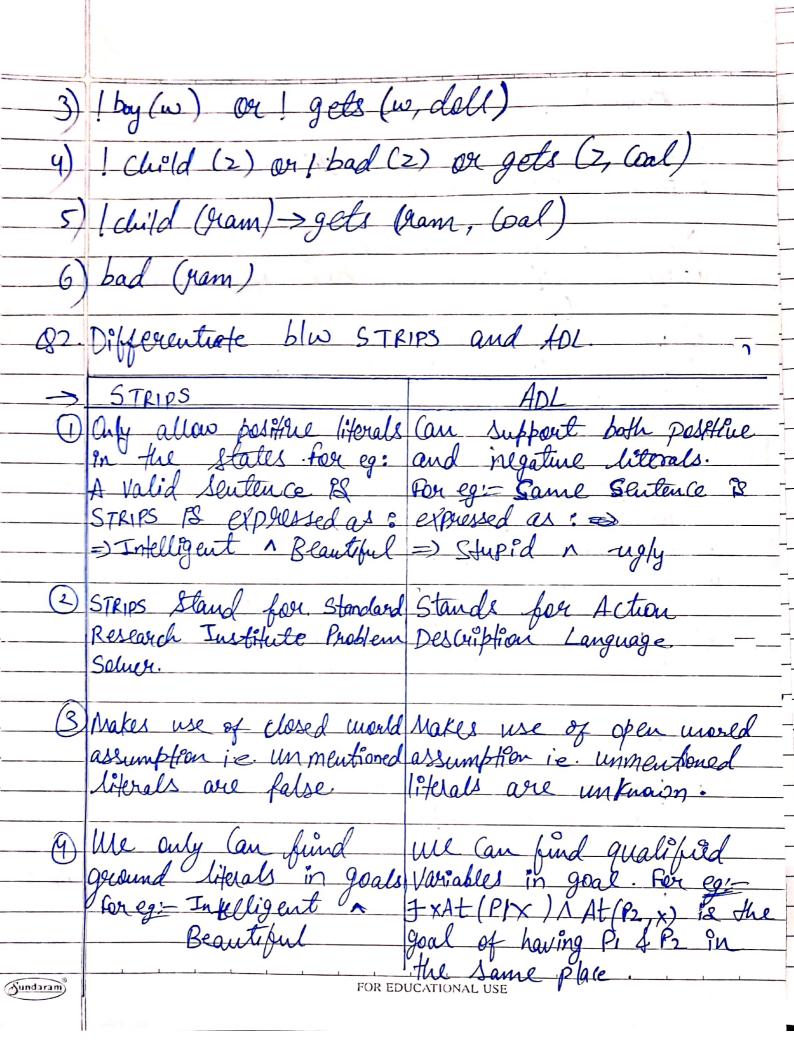
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Q1.	Solve the following with forward chaining or
	Solve the following with forward (haining on backward chaining or resolution (any one) use
	Dudicate logic as language of Fundelge representa-
	tion clarity Specify the facts & inference
	Dudicate Logic as longuage of Fundelge representa- tion clarity Specify the facts & inference full used.
Q_{1}	Example 1:
-	Every child sees some witch no which has
	both a black at & a pointed hat.
2	Every witch & good on bad.
3)	Every witch is good on bad. Every child who sees any good witch gets
4)	Every witch that is seen by any child has a pointed hat
	Every witch that is seen by any child has a
6)	prone: Every Child gets andy.
- -→	A) facts into fol
	N = x Ay (child (x), witch (y) > sees (x, y)) N = Y (witch (y) > has (y, black cat) A has (y, pointed)
	N'ty (witch (4) -> has (4, black cat) 1 has (4, pointed
	1) 1, 1/2 (1) > 0 0 1 (1) 1/b (1)
	1) +y (witch (y) → good (y) Vbad (y)) 3) Ex ((sees (x, y) → (witch (y) > good (y)) → get
	3) Ex ((SES(X,Y) = (With (y) = good (1)) get
	y) (y (witch (y) > bad (y)) + has (y > black hat))
	5) Ey (Sees (x, y) -> has (y, pointed hat).
	5/EY (3CB (X) Y) 2 MW (1/1) 2 MW /.
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5)	Goals are Conjunctions = 3= Intelligent ~ Beautiful	broals may invokel Conjunctions & disjunctions. Eg:- Intelligent ~ Beautiful ~ Rich.
6)	Effects are Conjunctions	Conditional effects are allowed when P:E means E B an effect only if P B Satisfied.
1)		Equality pudicate (x=y)
8)	Does not have support for types.	Support for types for eg: - The variable presson-
(O4)		
	P(B) 0.00 Burglary	(Earthquake) 0.002
	John (a)	B E P(A) F & T 0.95 T F 0.94 F F 0.29 P F 0.00
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	A P(T) T 0.09 F 0.05
	The topology of the n/w indicates that
	Burglacy and Carthqueke affect the Phobability -
1 6	Whether John and Navy Cally departs only on-
	They do not perceive any bringlasies directly they do not notice minor earthquakes and they do not confor before Calling.
2	Mary listening to loud music & John Confusing - phone singing to sound of alarm can - be lead from new only implicitly as - uncertainty associated to Celling at work.
3	The phobability a cheally summarize potentially- infinite sets of whenstances.
7	The alarm night full to go off due to high- humidity, power failure, dead bettery, cut wires, a dead mouse styck Posisk the bell etc.
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	Til and mu month latter Call and
,	John and many might fail to Call and Support & alarm because they are out of lunch, an vacation, temporarily deaf, passing helicopter etc
	with an vacation temporarily deat Passing
	helicoptor ete
	new apper cre
(v)	The Constition purposhility tables in now gives.
	The Condition probability tables in now gives. Perobability for values of Genden variables. depending on Combination of values for the Parent nodes.
	de bouding on combination of values for the
	Poblet nodes.
6	Each how must be sum to I belouse entries represent exhaustine set of Cases for Variable.
	entries represent exhaustine set of Cases
	lor Uniable.
	To the state of th
(6)	All Variables are Boolean.
	In general, a table for a Boolean Variable with K parants Contains 2" independently Specific phobabilities.
	with K parants Contains 2" independently
	Specific phobabilities.
	A Variable with no parlets has only one how, representing prior phobabilities of each passible
	representing privar phobabilities of lack possible
	value of the variable
	- 1 - 1 11 0 0 1 10 1 10 10 10 10
	Every entry in full joint Mustability distribution
	Can be actually promit in printers in
	Bayerstan n/w.
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