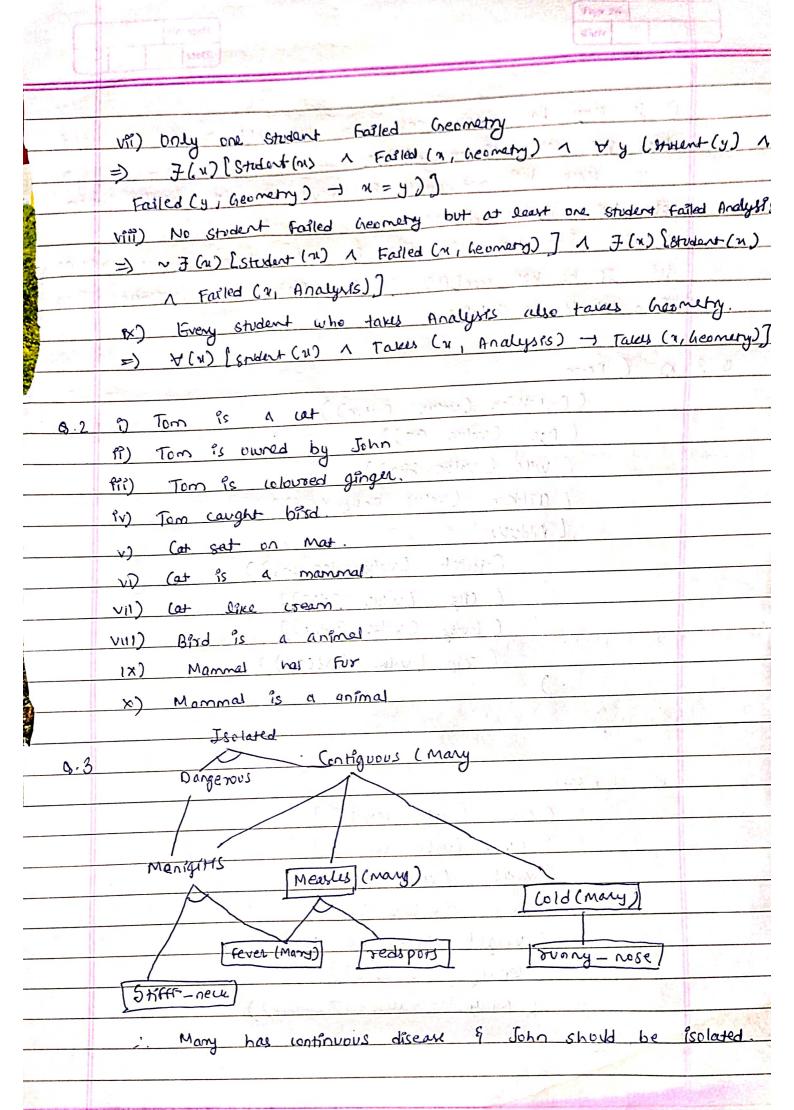
B V C IF ~ B & ~ C then A = Falle 9.8. A dies not win competition. Hence, Statement is true. 0 =) If Mario doesn't were occord then B = Falle It. Sigio doesn't come second than C = False So A = Falk But Carlo won the competition so A = True . Statement & sometet. isi) A -> B A C ) If Martin didn't come second then B = Falle then A = Fall P.e. Carlo didn't who competition so statement is correct. () 2) 831) has at least one 690 ter >> Fre sister (n) -> Bill (n, sister) n) Bill has no stater =) + x sister (m) -1 ~ Bill (m, sister.) PSi) BIII has at most one sister >> V(n) [sister(n) -> ~ Bill (n, sister) ) v f(n) [sister(n) -> Bill (n, s&ter)] 1 + (y) [ ~ (n = = y) 1 sista (y) -> ~ Bill (21, 885+en)) iv) Bill has enactly one sister =) 7-(1) [39sta(12) -) Bill (2, Sista) 1 4 (4)[~(2==9) a sister (y) -> ~ Bill (n, 89ster) ] V) Bill has at least two sisters =) F(n) [ &ster (u) > Bil) (n, sister) ) 1 F(y) [~(u = =y) E Sister (4) -> Bill (y, Sister )] VI) Every student takes at least one course => 7 (n) [ Student (n) -> 3 (y) [ wourse (y) 1 Takes (n, y))]



```
i) In many has mony nose she has cold to she has cold
    then she has contiguous dicease
    IF many has red-spots & fever she has measles than
    she has configuous disease.
    2) IF John has stiff neck & fever then he has manlag -
    itis. If he has mongitts it is contiguous & dangeroos. Then
    Juba should be Rolated
8.3 i) ( Ram
          ( Profession ( value Doctor))
          (Age (value 40))
           ( Wife ( value Sita))
           [ Wilden (value Babu, Wita))
           ( Addrews
           ( Wrest (value 100 kps))
              ( City (value Delhi))
              ( Loundy ( value India))
             ( Zip ( volue 756005))
    6) (Akarh
            (car (value Manti))
            ( Colour (value where))
            [model (value &x-400))
            ( Door (Value 5))
            ( weight (value 275 kg))
           ( capacity (value 8))
          (Mage (value 15 mm/lity)
```