50/ :-

P(the wiriner see blue | the Car is blue)

P(the Cour is blue | the witness see blue)

let Wb = 11 without see a steve taxi
Wg = 11 without see a geen com,

Tb = " Taxi is blue"

Tg = 1 Taxi is green

P (Tb | Wb) = P(Tb). P(Tb)
T (Wb)

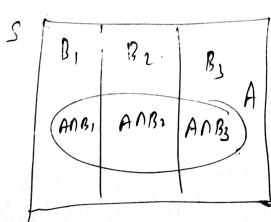
Rodon Pari Tb 0.01 0.09

Way Wg Wy

We with the way way

$$P(T_{1}) = 0.01$$
  $P(T_{4}) = 0.99$   
 $P(W_{1}|T_{5}) = 0.99$   $P(U_{5}|T_{5}) = 0.02$   
 $P(W_{5}) = P(T_{5}|T_{5}) \cdot P(T_{5}) + P(W_{5}|T_{5}) P(T_{5})$   
 $= 0.99 \times 0.01 + 0.02 \times 0.99$   
 $= 0.99 \times 0.03$ 

Total probability: -

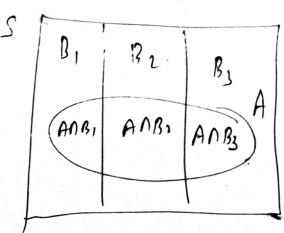


Mutuly Exceluse

A: (ANBI) U(ANB2) V (ANB3)

$$P(T_1) = 0.01$$
  $P(T_4) = 0.99$   
 $P(W_1|T_b) = 0.99$   $P(U_b|T_0) = 0.02$   
 $P(W_b) = P(T_b) \cdot P(T_b) + P(W_b|T_b) P(T_g)$   
 $= 0.99 \times 0.01 + 0.02 \times 0.99$   
 $= 0.99 \times 0.03$ 

Total probability.



Mutuly Exceluse

A: (ANBI) U(ANB2) V (AAB3)