Classical Proleater Cfy: Outcome for random enp. are equally exclusive Equally likely

Each outcome of an enp. has the same

chances of appearing as any other.

Chame chance of occurry Mutually Exclusive
One & only one of them can take place
out a 19me. (On tossing you of their get
heade or tail) Prolealestly of an event-Ilg. of outcomes where event occurs Total ng. of hoss Plete outcome -) Apriloli opproach only deals with celn, and & dree game. - Cannot deal for large ng ef terrals - Cannot gree answers to complex question The people of an event ranges from 0 to 1.

-> The people of entire sample space Is I.

-) 9f A & B are mutually exclusive defort events, then poul of accurence of A or B & green leg:

P(AUR)=P(A)+P(B)-P(ANR).
[P(AUR)=P(A)+P(B)]

P(AUBUC) = P(A) +P(B) +P(C)

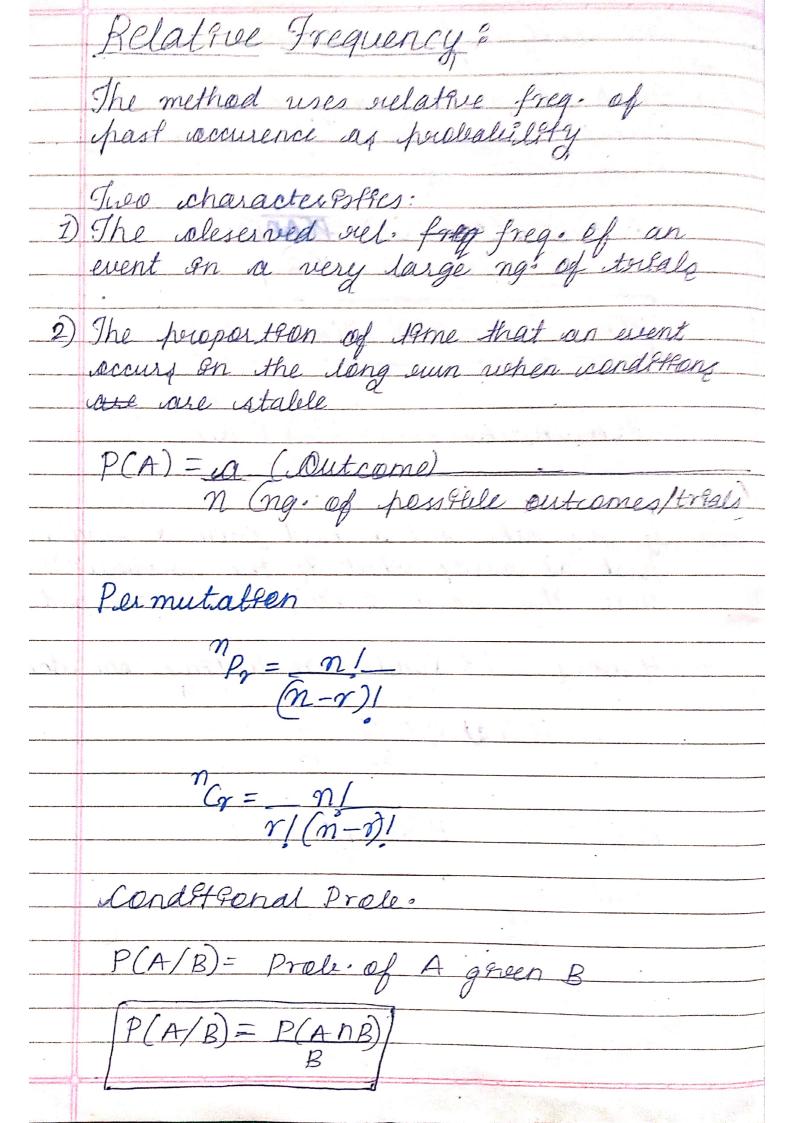
P(A, UA2UA3 - - -) = En P(Ai)

If you take out a card from a regular pack wood cards, what In the published that the card is either sice or spall

4 Aces 13 Spades Including one Ace

P(A + 5) = 16 = 4

P(A) = 1 P(3) = 13 = 1 13 824 = 4P(ANS) = 1 52



ultplication Rule: ndependent puell. P(ANB)=P(A):P pendent foucle. P(ANB) = &P(A/B)-P(B) P(ANB)= P(B/A)-P(A)