PROBABILITY: PROBA	ability and stats	
EVENTS		
Mutually Exclusive	NOT Mutually!	Exclusive
· Both events cannot		
happen at the same tin	ne /	
· · · · · · · · · · · · · · · · · · ·		<u> </u>
P(ANB) = 0	Independent	Non-independent
	· The occurrence of	· The occurrence of
	A does not affect the occurrence	A affects the
	of B	occurrence of B
A B	0 <del>1</del>	<u> </u>
	P(An B) = P(A) x P(B)	
Tools:		
1. Tree diagrams		
* A C		
A m D Y B N E		
J. B.C.E		
2. Venn diagram		
	(A'n B')	
·P(AnB) ·P(A'nB)		
3. PnC		
Common formulae		
P(AUB) = P(A) + P(B) - P(	AUB)	
P(AUB): P(A) + P(B) - in case of nutually exclusive events.		
	1	

P(A') = 1 - P(A)

P(A U B) = 1 - P(A' N B') P(A U B) = P(A N B') + P(B)
LCH O B) = LCH (1 B ) + LCB)
Conditional Probability
If A and B are any two events of a sample S and the probability of B \$ 0, then the conditional probability of A given that B has occurred
is
P(AIB) = P(A O B)
P(B)
If they are independent events, the conditional probability does not hold.
In that case, P(A B) = P(A)
in that cove, right) = right
Allempting probability questions:
, 8, 1, 1,