Moha	med Elsayed E	Itabei Ahmed	
(1)	P(R) = 0.4	P(B) = 0.3	P(G) = 0.3
	P(RNG)=0.07	P(BUB) = 0.0	of P(G(B)=0.1
P(RI	UGUB) = P(R)+ - P(GOB)	P(B)+P(G)-P( )+P(ROBOG)	RNB) - P(RNG)
letx	=P(ROBOG)		
oof to	0-3+0.3-0.05	0.07 - 0.1 + X =	-0.86
X = 1	0.08		
(2) f	Probability fir	st cord is spade	5 <u>- 13</u> 52
	Probability seco	and cord is spad	<u>P = 12</u> 51
	Probability 2 co	shoqe sya 2br.	$=\frac{13}{52} \times \frac{12}{51} = \frac{1}{17}$
(3) Pr	obability (win.	tournament) = o	8x0-4 = 0-32

(4) PIH) = 0.9 P(C)H)=0.6 P(G|C)=0.2 P(Advanced degree) = 0.9x0.6x0.2 = 0.108 (5) scenatio 1 P(sirst is red) = 5 P(second is red) = 4 ssena no 2 P(first is black) = 10 P(Secondisted) = 14 5 Probability = (5 x 4) + (10 x 5) = 1 (6) Fraction of studens Passthe final is X  $P(x) = (0.8)(0.7) + (0.4)x(0.3) = \frac{17}{25} = 0.68$