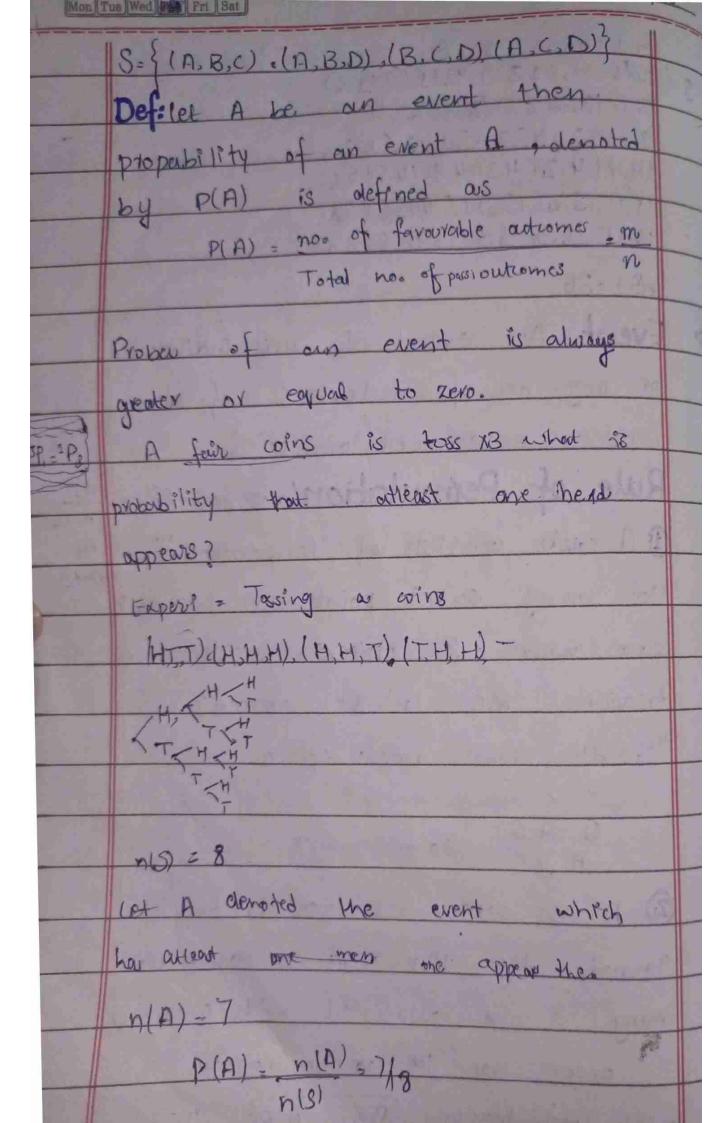
Mon Tue Wed Thu Fri Sat Chapter # 06. Probability chances of occurrence to something > Random experim: The term experim means a planned activity all or process whose result yield a set of data. · A single performance of an experiment is called a trial. The result obtained from experi or trial is called outcomes. Explesive have toss coins =5 times. HTTHH > Sample Space A set consisting of all possible outcomes that can be result from random experi is defined to be sample space It is denoted by S Each possible outcomes is member of Sample Space, and is called a sample point in that space We have die , de es volled possible

- Idmas	= As order of selection modlers = As order of selection X modlers Date: 10/11/20	
5={	(2,1) (2,2)(2,3).(2,4),(2,5)(2.6) (3,1) (3,2)(3,3).(3,4)(3,5),(3,6)	1
	(4,1) (4,2)(4,3)(4,4),(4,5)(4,6) $(5,1),(5,2)(5,3)(5,4)(5,5)(5,6)$ $(6,1) (6,3)(6,3)(6,4)(6,5)(6,6)$ $(6,5) = 36$	
>	event An event is an indivadual or any no of outcomes of a random experiment or treat.	
	Rule of Permutation (order matter) Pr = n; (n-1) A club consists of 4 members "Cr = n;	
	How many sample points r in sample space when 3 officers president secreties treasurive one to be chosen?	
	PST BAC PSC order matter	-
	a A 3 person comittee is to be formed by 18st of 4 person How	
	many s point associated with experime order mot tell position not tell rank not mother BAC ABC "C3=4"	



Note:- We will always assume
with replacement
with replacement
until it is not mention. Date: _/_120 It as course is drown ordinary from deck of 52 plain cards. 0 find probability that 26 Black 1:- year card 13 13 13 13 2 2:- alla monob card Heart Diamons Club Lot A represent the J event that card is red coloured. n(A)=26 $n(P)=5a=\frac{1}{2}$ 50%Hence, probability of reducator is 50% let B be event that eard is dia n(8)=13 $n(P)=\frac{13}{3}=\frac{1}{4}=25^{\circ}6$ let 6 be event that card is 10. n(c)= 4 n(P)= 4/52 = 1/18 6 white balls and 4 black balls which are distinguishable apart from color and placed in bags. 97 6 balls are taken from bag find probability of their being 3 white, 3 black? Two cases 1:- With Replacement 2:- Without Replacement

Mon Tua Wed Thu Pri Bat Law of Probability Date: _/_/	20 6.8
Low of Complement	169
$A + \overline{A} = S$ where $\overline{A} = S - A$	
P(A)+P(A)=P(S)	
$P(A) + P(\bar{A}) = 1$ $P(S) = \frac{51}{51} = 1$	-
P(A) =1-P(A)	2.14
Example: A coin is tossed 4 times	(4)
in succession. What is prob that	A
at least one Tread occurs?	
Solution: n(s) = 2" = 16	
Let A be event at least I head a	eurs
A -> no head occurs	
A={TTTT} P(A)=416	(New Y
D(A)=1-1/16=15/16	
Example: A coin is (baised) so that	t
(6.11) propa that is take showing tales	110
3/4? find pro of obtain at least 1.1	ta Hande
when coin is Tossed Stimes . How m	any
times must the coin be tossed	Sõ
that prob of obtaining at least	7
one head greater than 0.98	
Solution: - Pla head appears) = 1/4	
P(no head or tail appears) = 3/4	

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if p=1/7 then := P(AnB) = 0

P(B)= 2/7

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