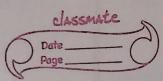
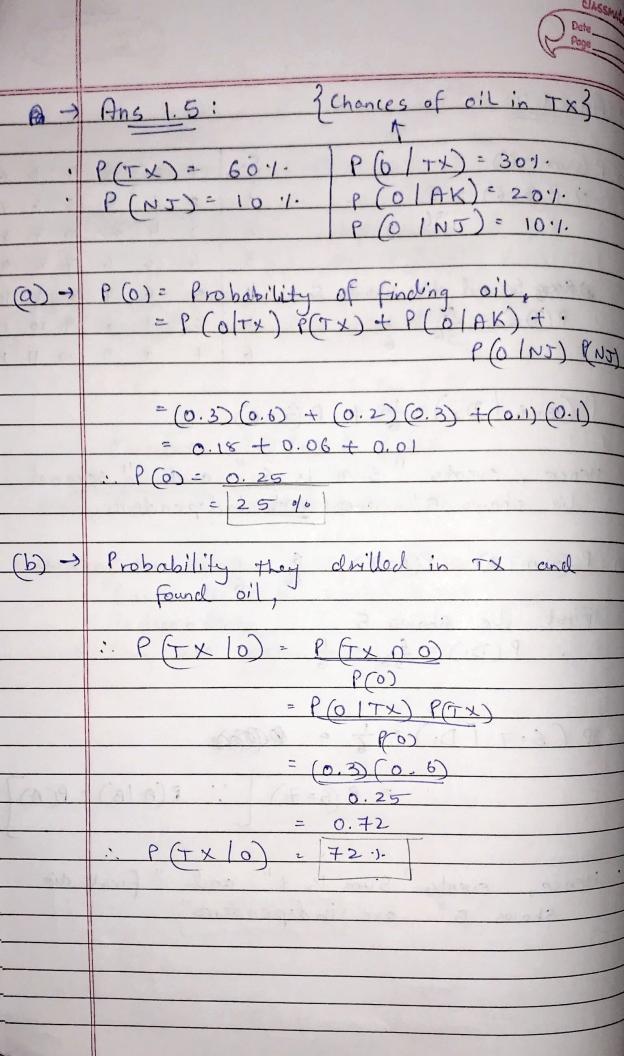


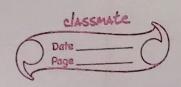
\* Name: DAKSH K. BHUVA (WID: - 10475468 Given, P(J) = 201. Ans 1.1: P(JOS) P(5) = 30%. P(J (5) = 8.1. (a) P(J.15) = 4 = 0.2667(b) P(J 16') = 12: = 0.1714) (C) P (JAS | JUS) = 4 = 0.1904 -> Ans. 1.2: (400) VAXXXXX = P(H) = 80%, P(S) = 90%, P(HUS) = 91% : P (HUS) = P (H) + P(S) + P(HNS) : P(HAS) = P(H) + P(S) - P(HUS) = 80 + 90 - 91 : P(Hns) = 79% (a) 8000000 P(Honly) = 80 - 79 (b) P(5 only) = 90 - 79 = 11.1. Ly H-S 5-H (C) P ((HUS)') = 100- 910 = 19.10

	Date Page
->	Ans 1.3:
30%	P(J) = 2011., P(S) = 30.1., P(J) = 8.1.
**	Two events are independent if: P(AIB) = P(A) or P(AAB) = P(A) P(B)
*	Three form, Now, P(515) = P(515) = P(65)
	$=8 = 4$ 30 15  Therefore, $P(J(5) \neq P(J)$
	P(J). P(S)=0,20 x0.30=0.06 = 7(J)
- Hen	"Susan is at the bank" to one not
-	They are dependent.
	(20149 + 1009 + 1009 - 100A9
	(2017) - (2) + (1) - (2) 19 19 - 09 + 00
	PERSON COMMINS AND
	PE-OF COMMENT
	A. D. a. A. D. C.



->	Ans 1.4:						
<u>a</u>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$						
	GREATING Second clie shows 5 4 5 6 7 8 9 10 11 12 36 6 6 17 8 9 10 11 12						
	P(5=6 D2)= = = + P(5=6)						
•	Hence, events "Sum is 6" and "second die shows 5" are not independent.						
(b)	P (5um = 7) = P(6=7) = 6 = 1						
_	First die Ghows 5  P(D1) = 6 = 11						
``.	P (5=7   D1) = 1 0 00000						
	= P(6=7) [: P(A1B) = P(A)]						
	Hence, events "Sum is 7" and "first die Shows 5" are independent.)						





-	Λ.			
7	Ans		6	:
		-		•

- -) Probability of passenger surviving = P(Ps)
- a della Passenger not survived,
  - · P(PB1)= 1490 | 2201
- 6 Passenger Staying in first class,
  - :. P(first) = 325 2201
- E First Class l'assenger, given the passenger survived,
  - P(first Ps) = P(first n Ps)
    P(Ps)
    - 711

a P (first |P5| = 203 + 325 = P(first)711 2201

- .. P(A1B) + P(A)
- i. Hence, survival and staying in first class
  corell are not independent.

  They are (dependent)

