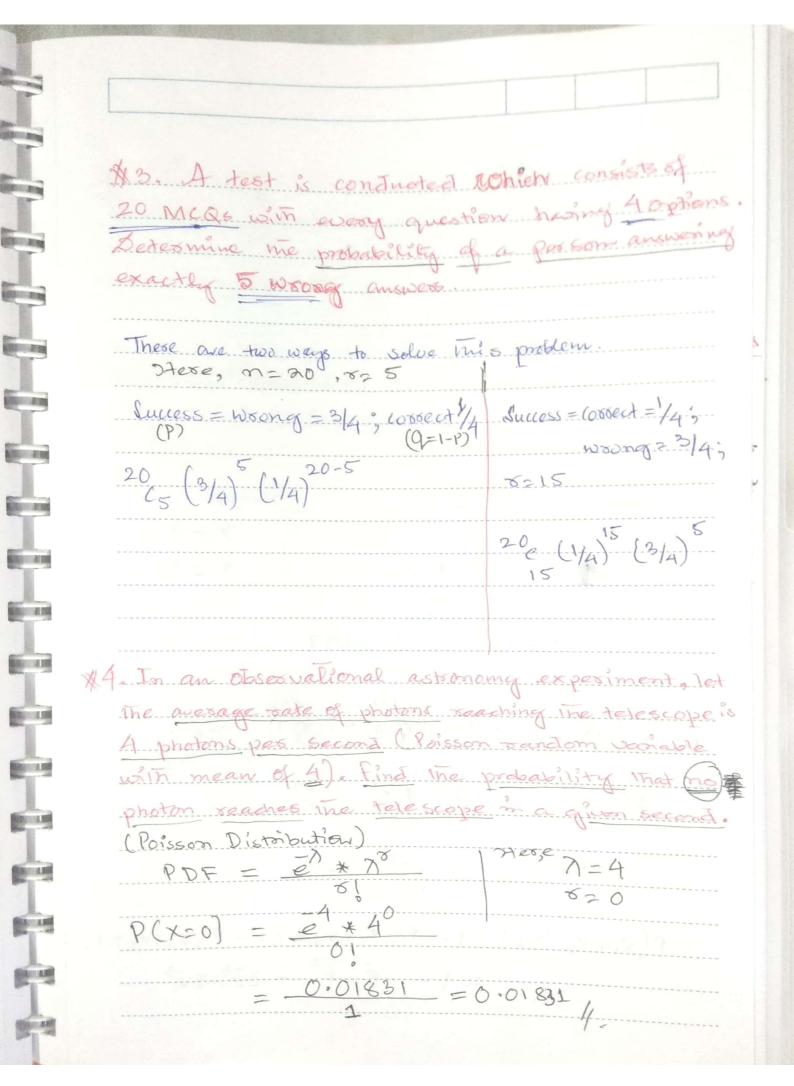
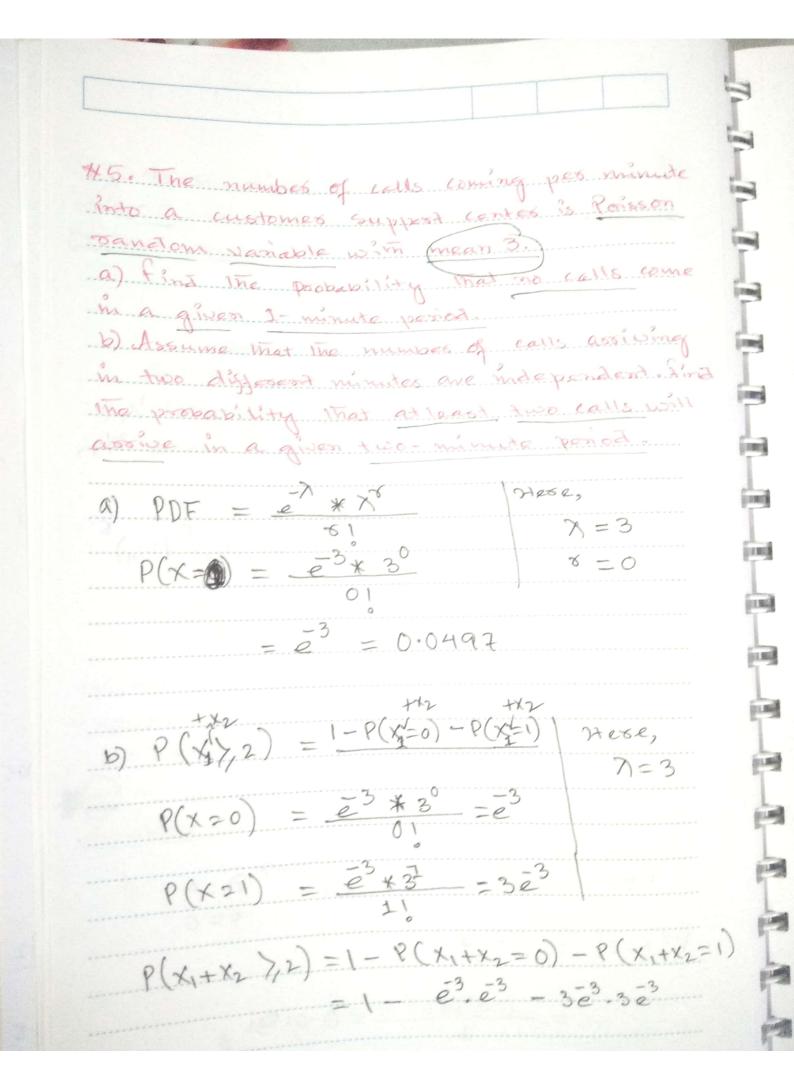


TIT C) Z-Score = X-19 = 50000 - 38,000 = 12,000 = 10000P(XL 50,000) = 0.8849 f Z-20086 - 30000 -38000 - -8000 =-0.8 I Was P(XL30000) = 0.2119 EI RO P (30000 (x (50,000) = 0.8849 - 0.2119 I No = 0.673 TI MIS The no. of froms with sales between Rs, 30,000 1180 and 50000 is - 2000 x 0.673 = 1346 1 LIMI 1.86





*6. If a production of	ine has a 20%. Latectives
calculate the prob. of	obtaining The first dejed a pasts. What is the work
part ofter (insee good	a parts. what is the west
number of inspections	to obtain the frost defeat
	P (Prob. of Japanies de) = 0.7
P(X)3) = 1 - P(X=0) - P(X=1)	P (Prob. of Japanies de) = 0.7
$-P(X_{2}2)-P(X_{2}3)$	= 0.8
	6= no. of success events = 1
	memo. of mals = 3
	1
V	
The state of the s	

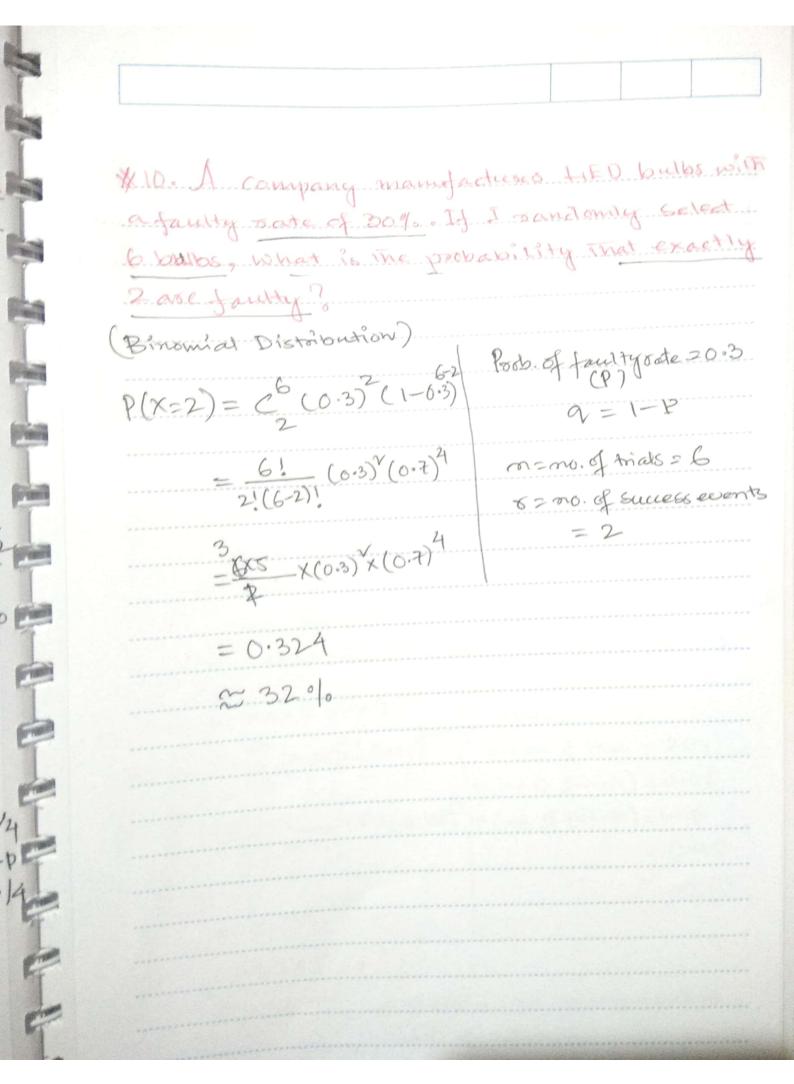
V	
	2

dent is accepted to a
me probability that
-) stere,
ρ(ρεοβ· of Salless) = 0.3
0-1-12
0
5-1
)5-2
) \$
t) ⁴
0·Z)3
0.3)(0.7) + 50 (0.3)(0.7)
3) (0.7) 4 5×4 (0.3) (0.7)
1 + 0.3087
Atmost 2 one accepted f 5 students.

*8.01		10	+ 231	elev	40
The she w	naximum wa	ant in	mi oda	xe 168	00
The apartn	sent complex	can all	omen	7080	x. 35
me average	a adult waig	at be -	mhalo	(Vity	Th
van ance of	200. What	16 Mas . 12	and	when	. 13
ine lift &	afely reaches	The spec	224	on wh	at
	Hesent adult	Z	J	G	
	12 adults?	<u></u>			2
a) in case	of 10 adul	15	X =	800	
	6			= 70 X	10
	2.2.2.0		6	= 120	507
	800-700				2
	72000	4			
=		2.23	6		
	44.72				
from, 2-+	able = 0.98	71			
	≈ 98.71	0/6 80	aches	The goo	un
		800	fely.		
h) In case	of 12 adult	3,		X=80	50
0)				M = 7	OX
7 =	X-M			6 = 1	20
	6				
	850 - 840		*****		
	7200X17				
=	(-40)		-0.81	6	
	48.99				

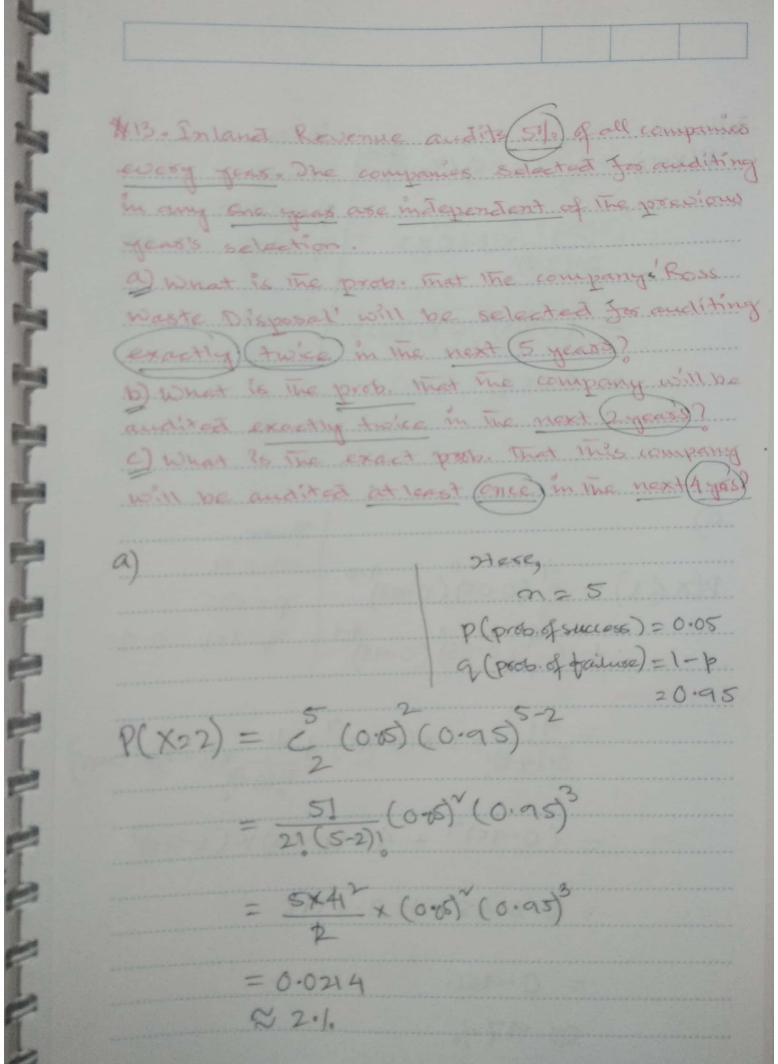
*9. A Student to tes	+ his wa	ck, we	nt to an	exam
CCH DOE DECO E CI 17 174E	m TATE W	LINE A LAND	and my las a me	1 / /
100 COCV 0	WELLEYV	INCOC	13050-1-	7
and the first of the first	dan fert denounced		White seed	-coped1
temperos	what is	The par	doabilit	4 12 1
clease the exam	17 ff ex	celv 9 v	restion 1	las 4
to sold of the	wol. who	+ 38 1h	e 1220p	· That
of the exam	1			
b(x(x) = 5c; b, d.	1-2	Hese,		
150 Ld			50	
P(XL20) = 60 (1/2) (1	50-0	\$ (p	86. & succes	se) - 1
+ 050 (1/2)	(2)	9 (p	ob of facture	2
+ c50 (1/2)	2) 1		7 1	7=1-102.
+ 23 (1	(2) (1/2)	+		-
+	C 20 (1/2)10	(C/T) 20.	+c C1/2	30 50-2
		************	20	(12)
b) P(x620)= 20 (14)°	71150-0		A REMARKS	
+ (50 (14)	0/4)		Here,	
+ (50 (14) (3/4) 50-2+	(4)		P(P800.05	Success 2/
+ c50 C14	19 01,50-19	7 20	9/2006	fantwel-1-1
19-64	1 (14) + 2	(1/4) (3/4) ST	12	=3

		7	*******	
318-0-				



XILI xecutives in the New Zealand fosestory Industry Claim that only stoof all somether sates contain soil residuals of dioximlan additive previously too and sup-stain treatment in wood higher man me occomended level . If Environment Canterbury randomly selects (20 des samuill sites for inspection, assuming that me executive claim is consect; a) halaulate the prob that less than so equal to I site exceeds the recommeded level of dioxin b) Calculate The prob. That lass man as equal to I site exceed the recommended level of dioxin. c) Calculate the prob. That at most (i.e., maximum) 2 sites exceed the secommended level of a) (Lyoss man I site) P(x20) = 20 (0.05)x(0.05) (0.05) (0.05) (0.05) = 201 x1 x(0.95) p(no. of success) = 0.05 = (0-95)20 excepts the recommended ≈ 360/0 level of dioxing.

b) Prob. of less man as equal to I site = 20 (0.05) (0.95) + 6, (0.05) (0.95) = 201 x(0.95) + 201 x(0.05) x(0.95)19 = (0.95)20 + 20 x (0.05) x (0.95) 0.3585 +0.3774 = 6.7359 276 % excepts recor level of dioxin, c) Prob. of atmost 2 sites excepts = C₀(0.05)(0.95) + C₁(0.05) (0.95)²⁰⁻¹ + 20 (0.05)2 (0.95)20-2 = 0.3585 + 0.3774 + 206 (0.05)(0.95) = 0.3585 +0.3774+2/0×19 (0.08)(0.95) 0.3585+0.3774+0.1887 = 0-9246 2 920/0 exceeds recommended level of dioxin.



b) P(x22) = e (0.05) (0.95) m = 2 p = 0.05
$= \frac{2!}{2!(2-2)!} \times (0.05) \times 1 \qquad q = 1-p = 0.95$
$=(0.08)^{}=0.0025$
€ 0.25.
*
C) AREC,
P(x < 1) - 2 (0.05) (0.05)
This is too + C (0.05) (0.95) p2 0.05
This is for the cost once
$= \frac{41}{0!(4-0)!} \times 1 \times (0.95) + \frac{41}{1!(4-1)!} \times (0.05) \times (0.95)^{3}$
- (0.00)
(0.95) x (0.95)
= 0.8145 + 0.1715
= 0.086
~ 970/0

