## Q2 (i):

Stain removed claim = P = 70% = 0-7

V=0.3

number of reited gaments = 15

 $P(x<12) = \frac{2}{2} (15) (0.7)^{n} (0.3)^{15-n}$ 

P = 0.703

P(n=10) s (10) (0.7) 10 (0.3) 5

P(n=10) = 0.2063 the claim is not correct

Find meen = H7

Menp

M=(15)(0.7)

M = 10.5

Find variance = 52 )

52 = npq

 $S^2 = (15)(0.7)(0.3)$  $S^2 = 3.15$ 

$Date = 20^{\frac{6}{3}} \frac{3}{3}$ $Date = 20^{\frac{6}{3}} \frac{3}{3}$ $P(c_1) = 0.2$ $P(c_2) = 0.3$ $P(c_3) = 0.3$ $P(c_4) = c_5$ $P(c_5) = c_5$			Ourseli
$ \begin{array}{lll}                                   $			Pg 2
$P(c_1) = 0.2$ $P(c_1) = 0.5$ $P(c_2) = 0.3$ $P(c_3) = 0.3$ $P(c_3) = 0.3$ $P(c_4) = 0.3$ $P(c_5) = 0.3$		Date	
$P(c_1) = 0.2$ $P(c_1) = 0.5$ $P(c_2) = 0.3$ $P(c_3) = 0.3$ $P(c_3) = 0.3$ $P(c_4) = 0.3$ $P(c_5) = 0.3$	82 (ii)		
$P((1) = 0.5)$ $P((1) = 0.5)$ $P((1) = 0.3)$ $9 = 1$ $9 = 3$ $9 = 4$ $1 = 8$ $P((1) = 0.0527)$ $P((1) = 0.0527)$ $P((1) = 0.0527)$ $P((28) = e^{-34} (34)^{28}$			
$P((1) = 0.5)$ $P((1) = 0.5)$ $P((1) = 0.3)$ $9 = 1$ $9 = 3$ $9 = 4$ $1 = 8$ $P((1) = 0.0527)$ $P((1) = 0.0527)$ $P((1) = 0.0527)$ $P((28) = e^{-34} (34)^{28}$	P(1) = 0:2		
$P((3) = 0.3)$ $9 = 1$ $9 = 3$ $9 = 4$ $1 = 8$ $P(9 = 1, 9 = 3, 9 = 4) = 1 = 0.02 \cdot (0.2) \cdot (0.5)^{3} \cdot (0.3)^{3}$ $= 8!  (0.2) \cdot (0.5)^{3} \cdot (0.3)^{3}$			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	211	-	
$q_3 = 3$ $q_3 = 4$ $n = 8$ $P(q_{1}=1, q_{2}=3, q_{3}=4) = n!  C_{1}^{3} \cdot (2^{3} \cdot (3^{3} - 1)^{2} \cdot (3^{3} - 1)^$	2.	- MT	
$P(g_{1}=1, g_{2}=3, g_{3}=4) = n!  C_{1}^{3} \cdot (z^{2}) \cdot (z^{3})$ $= 8!  (0 \cdot 2) \cdot (0 \cdot 5)^{3} \cdot (0 \cdot 3)^{3}$ $= 1!  3!  4!$ $P = 0 \cdot 0567$ $0 \cdot (iii)$ $P(28) = e^{-34} \cdot (34)^{28}$	31		
$P(g_{1}=1, g_{2}=3, g_{3}=4) = \frac{n!}{n!} \frac{(2^{3} \cdot (2^{3})^{2})^{3}}{n! \cdot n! \cdot n!}$ $= \frac{8!}{1! \cdot 3! \cdot 4!} \frac{(0 \cdot 2)! \cdot (0 \cdot 5)^{3} \cdot (0 \cdot 3)^{3}}{1! \cdot 3! \cdot 4!}$ $P = 0 \cdot 05 \angle 7$ $N_{1} = \frac{n!}{1! \cdot 3! \cdot 4!}$ $P = 0 \cdot 05 \angle 7$ $N_{2} = \frac{n!}{1! \cdot 3! \cdot 4!}$ $P(28) = e^{-34} \cdot (34)^{28}$			
P = 0.0567 $P = 0.0567$ $0 = 0.0567$ $0 = 0.0567$ $0 = 0.0567$ $0 = 0.0567$	n = 8		
P = 0.0567 $P = 0.0567$ $0 = 0.0567$ $0 = 0.0567$ $0 = 0.0567$ $0 = 0.0567$			
P = 0.0567 $P = 0.0567$ $0 = 0.0567$ $0 = 0.0567$ $0 = 0.0567$ $0 = 0.0567$	P(g1=1, q2=3, q3=4) 3 n!	(1) (29)	(3)
$= 8! (5.2)'(5.5)^{3}(5.3)^{7}$ $= 8! (5.2)'(5.5)^{3}(5.3)^{7}$ $P = 5.0567$ $8! (iii)$ $8! (iii)$ $Number of defective = 28$ $N = 34$ $P(28) = e^{-34}(34)^{28}$	n,! n21 n3		
$P = 0.0567$ 82 (iii)  Number of defective = 28 $\lambda = 34$ $P(28) = e^{-34} (34)^{28}$		*	
$P = 0.0567$ $0 : (iii)$ $humber of defective = 28$ $h = 34$ $P(28) = e^{-34} (34)^{28}$	= 8!	(0.2)'(	5.5)3 (0.3)7
82 (iii)  Number of defective = 28 $\lambda = 34$ $P(28) = e^{-34} (34)^{28}$	1   31 41		
82 (iii)  Number of defective = 28 $\lambda = 34$ $P(28) = e^{-34} (34)^{28}$			
$h = 34$ $P(28) = e^{-34} (34)^{28}$	P = 0-0567	11 151 1	
$h = 34$ $P(28) = e^{-34} (34)^{28}$			
$h = 34$ $P(28) = e^{-34} (34)^{28}$		Paral Car	
$\lambda = 34$ $P(28) = e^{-34} (34)^{28}$	8: ( ;;;)		
$\lambda = 34$ $P(28) = e^{-34} (34)^{28}$			
$P(28) = e^{-34} (34)^{28}$		ctive = 29	3
$P(28) = e^{-34} (34)^{28}$	λ = 39		
	2 - 3 1 / 2 1 ) 28		
2.8		Anna and	
	7.8		-
1 2/ 1 2/27	1 2/ 1 2/27		
(P(28) = 0-0427	(b(58) = 0.00174)	-101	AL BALL HOLD

Date \_\_\_\_\_\_20 \_

		K18-0196
	Date	
P(-1.87 (2 < 2.50) = P(2 2.5	2.50) - P [	26-1.27)
= 0.9637		
P = 96.37 %		1
(e) Loss than 30 and faile	·d ·	
P(neso)	1-	
2 = 50-65 = -1.875		
P(ZC-1-87) = 0.03	22	
P = 0-30	04	
P = 3.07 %		
	la l	
And the second s		