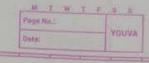


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Reinforcement: -  Reward and penalty	



a let a denote the number of scores in a test. If so is normally distributed with mean 100 and std 15 find the probability that or doesn't exceed 130

→ P(X <180) =7

Z= 180-100

" P(x≤130) = P(z≤2) = 0.97 #2.

Q. The random variable with mean 9 and std 3. find the probability when

i) X>15 ii) X <15 ii) 0< X < 9 ii) X <15

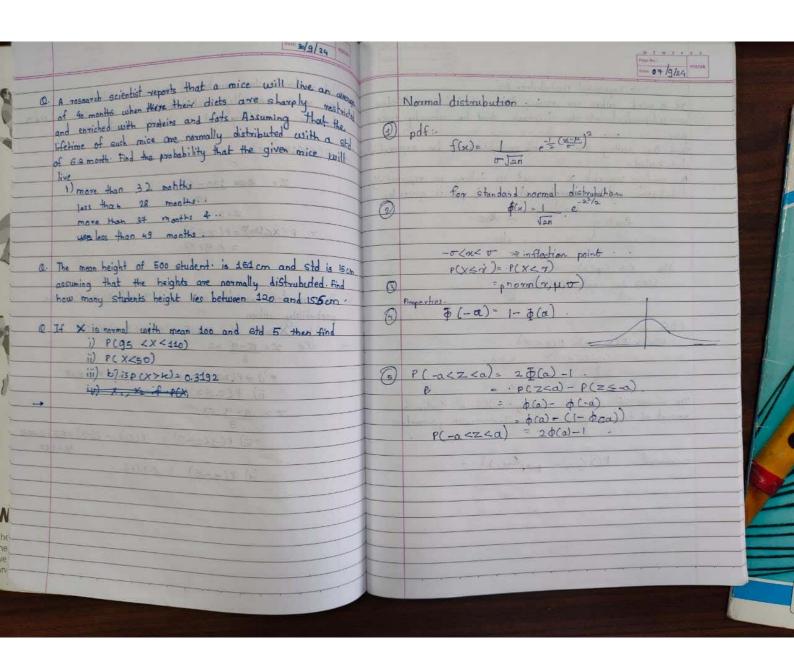
Of Z= 15-9 = 2.

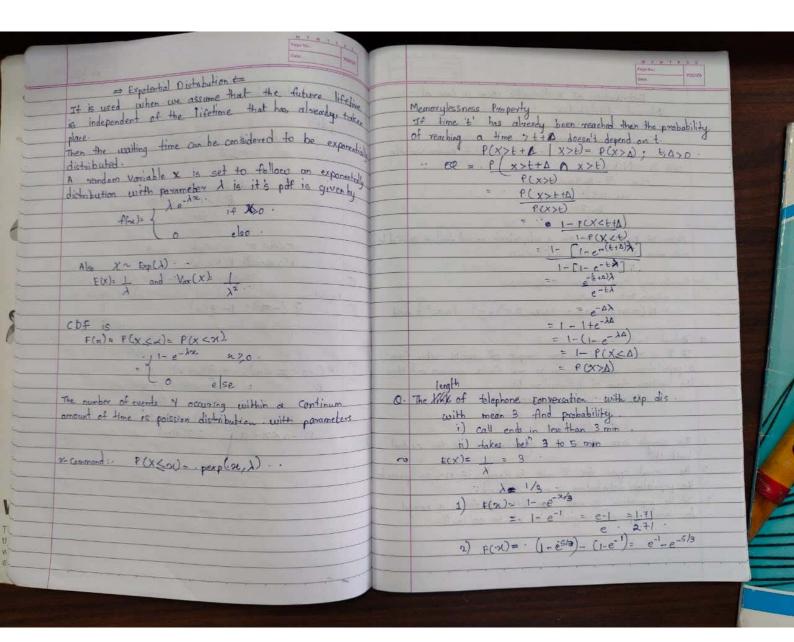
0 j) = P(27,2) = 00 1- 0.9772 = 0028. ii) P(Z52) = 0.9772

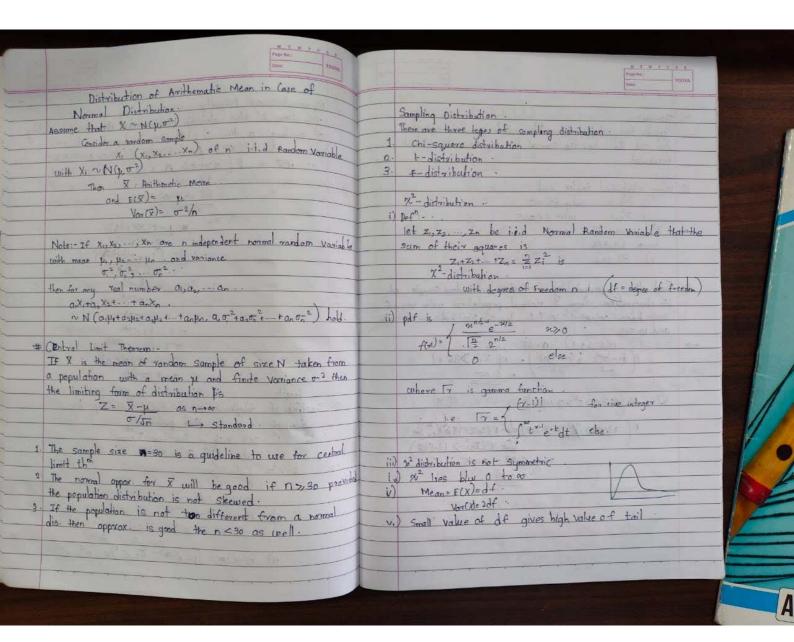
Z= 0-9 =3 -

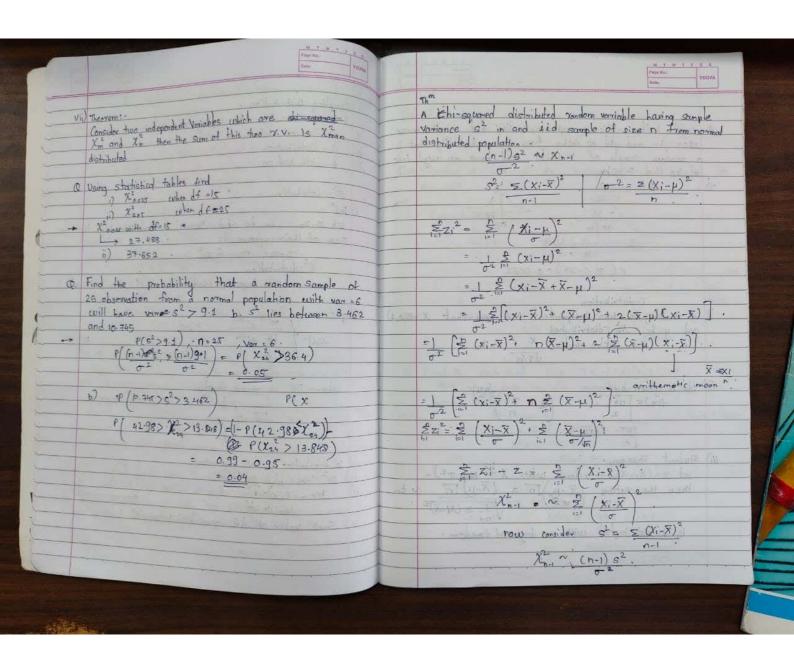
" iii) P(-3<240) = P(0) - P(-3) =05-0.0013

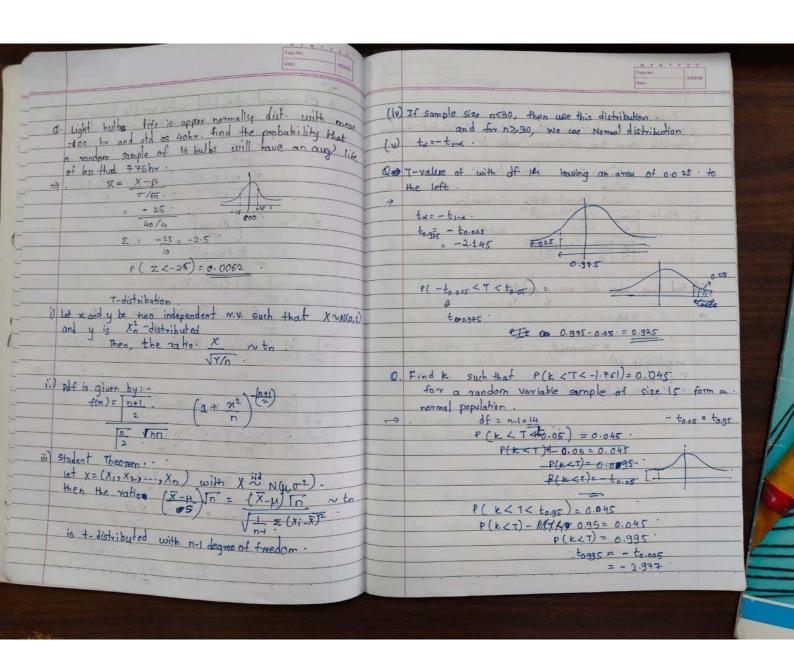
iv) P(z<15) = 0.9772.











M 7 IV Frage Au. Chair. Chair. Chair.	Inferences.
F-distribution  Def 1:- let X and Y be X m and X m distributed random variable then the distribution nation is  \[ \frac{\chi^n}{\chi^n} = \text{Fm.n}  \text{distributed}   \\ \frac{\chi^n}{\chi^n} = \text{Fm.n}  \text{distributed}   \\ \frac{\chi^n}{\chi^n} = \text{Into}  \text{(m,n)}  \text{degPe}  \text{of Freedom}   \\ \text{i)}  \text{f(x)} = \text{(nto)}  \frac{\chi^{n/2}}{\chi}   \\ \text{2}  \text{(m,n)}  \text{degPe}  \text{of Freedom}   \\ \text{i)}  \text{f(x)} = \text{(nto)}   \text{(nto)}	1. Simple foodon sample:  It's a sample in which each voter has an equal probability of being selected in the sample and is independentily chosen from sample population.  2. Parameters of population:  It's an ourseric value that gives a characteristic of entire population. It is denoted by 9.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	entire population. It is denoted by 8.  3. Sample, estimates:  Numerical Values calculated from a sample provides estimates or app6ximation of population parameter:  4. Statistic:  A function of 7.V. is called statistic. It is denoted by
P-Command.  gchisq (p, dt).  gt(p, dt).  gt(p, dt_1, dt_2)	A statistic is called a 7.v.  Statistic is used to estimate a population parameter that is $T(x)$ is an estimator of $\theta$ .  i.e. $T(x)=\hat{\theta}$
TO A	5. Unbiased estimator:  An estimator is unbiased if:  Eo(T(X))=0.  The Bias of an estimator is  Bias (T(X)) = Eo(T(X))=0.
2000 0000 0000 0000	An estimator is unbiased if it's biased is a.

Page Ma.  Page Mar.  P	
6. Var(T(X)) = E ([T(X) - E(T(X)] <sup>2</sup> ].  mean squared Error (MSE).  Also, MSEo (T(X)) = Varo (T(X)) + (Bias, (T(X))) <sup>2</sup> MSEo (T(X)) = F(T(X) - O] <sup>2</sup>	$ \frac{\nabla^{2} = 5 \sigma_{x}^{2}}{\nabla \sigma_{x}^{2}},  Von(x) = \nabla^{2} \sigma_{x}^{2} $ $ \frac{1}{1} \frac{1}{1}$
MSEO CI(X))=FCI(X)-O]  The let X=(X,X,Xs,,Xn) be an i.i.d sample of sample variable as X with population mean $\mu$ and population var $\sigma^2$ , then the arithematric mean $\tilde{X} = \frac{e}{2} \times i$ is an	Ex. Let x1, x2, x3) Xn be intel sample of size n, with population mean of and Pop variance on.
un biased estimator of $\mu$ .  And sample variance $s^2 = \sum_{i=1}^{n} (x_i - \overline{x})^2$ is an un biased estimator of $\sigma^2$ .  Proof:	prove  1. $\widetilde{X} = \widetilde{X} +   = Z(X + 1)$ is blosed estimater of $\mu$ .  Consider $E(\widetilde{X}) = E(\widetilde{X} + 1)$ Now by $H^m$ we know that $E(\widetilde{X} + 1) = E(\widetilde{X}) + E(1)$ $E(\widetilde{X} + 1) = E(\widetilde{X}) + E(1)$
Sample Mean = X.	2. $S^2 = \frac{D}{C} (X_i - \overline{X})^2$ is biased estimator of $\sigma^2$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\rightarrow$ By th <sup>m</sup> we know that $E(S^2) = \sigma^{-2}$ .
$ \begin{array}{c} \Rightarrow E\left(\frac{\Sigma(X_{1}-\mu)^{2}}{\Sigma(X_{1}-\mu)^{2}}\right) = E\left(\frac{\Sigma(X_{1}-\overline{X})}{\Sigma(X_{1}-\mu)^{2}}\right) \\ \xrightarrow{n+} & n+ \\ \end{array} $	Annual lines to hand an all all all all all all all all all
15  Var(Xi) = F(s) + n  Var(X)	

