CHI SQUARE TEST =1 (X

A chi-square (x²) statistic is a test that measures how expectations compare to actual observed data.

Conditions bus chi-square test =:

- O The sample under study must be large and total ob cent brequency should not be Less than 50.
- 2. The member of the cens should be Independent.

white middle and contraint importation

The cell frequency of each each should be greater than

5. It any cell frequency hess than 5 then it should
be combined with the next or freceding cell

until the total brequency exceeds 5.

cell brequency should not involve any logarithmic, exponential or Trigonometric relation, ise only linear relation.

(HI- SQUARE (X2) IS USED AS = !

O Test ob Independence D Test ob goodness of Bit.

Degree ob breedom =>! The Number of degrees of breedom is the number of values in the final calculations of a statistic that are bree to vary. The number of independent Ways by which a dynamic system can more, Without violating any constraint imposed on it, is called now number of degrees of bree dom. Dit the data is given in the torm of a series of variables in a now or column then the degree of Freedom = (No: ob items in the series) - 1 1 When the number of frequencies are fut in cells in a contingency table. The d.F = (R-1) ((-1) where R wand c is the number of nows and columns nespectively.

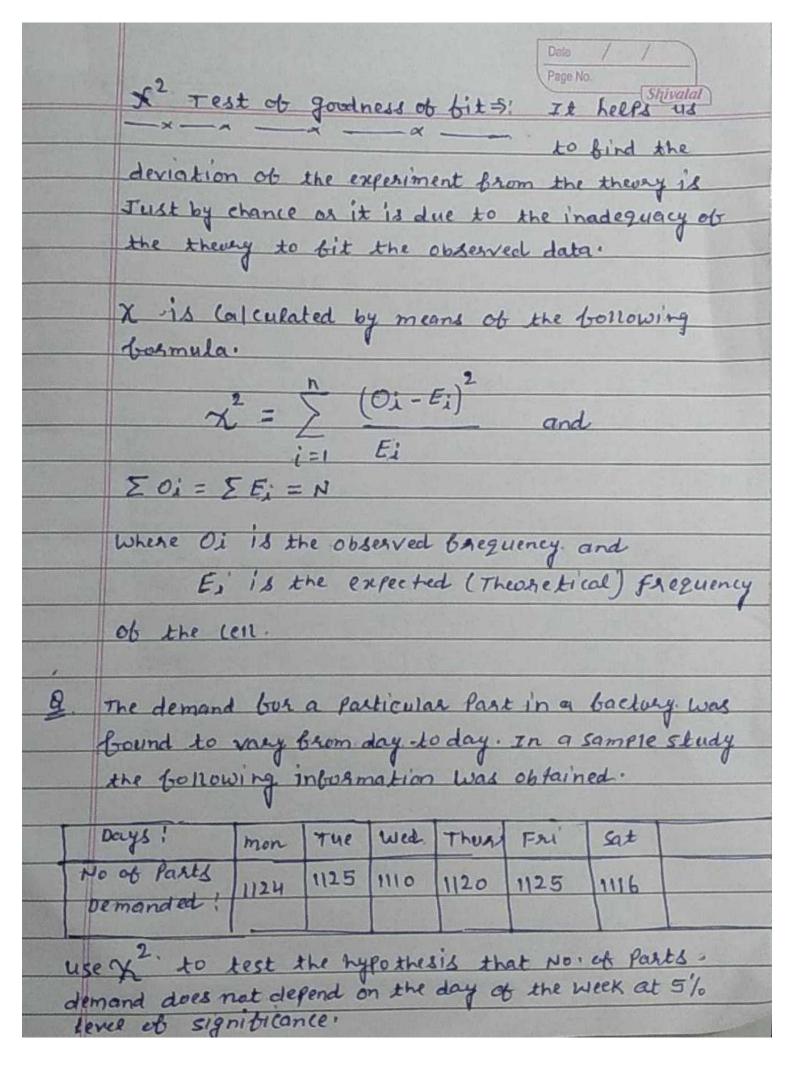
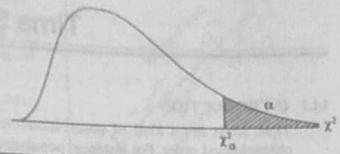


TABLE - 3 CHI-SQUARE DISTRIBUTION

that correspond to a given a specified number agency of freedom.



13	Upper-Tail Area					
Aprel of	.20	.10	.05	.02	.01	.001
omina .	1.642	2.706	3.841	5.412	6.635	10.827
1	3.219	4.605	5.991	7.824	9.210	13.815
-	4.642	6.251	7.815	9.837	11.345	16.268
	4,989	7.779	9.488	11.668	13.277	18,465
3	7.289	9.236	11.070	13.388	15.086	20,517
6	8.558	10.645	12.592	15.033	16,812	22.457
1	9,083	12.017	14.067	16,622	18.475	24.322
5	11,030	13.362	15.507	18.168	20,090	26.125
3	12,242	14.648	16.919	19.679	21.666	27.877
10	13,442	15.987	18.307	21.161	23.209	29.588
11	14.631 15.812	17.275 18.549	19.675 21.026	22.618 24.054	24.725 26.217	31.264 32,909
12	16.985	19.812	22.362	25.472	27.688	34,528
B		21.064	23.685	26.873	29.141	36,123
14	18.151	22.307	24.996	28.259	30.578	37.697
16 17	20.465 21.615	23.542 24.769	26,296 27,587	29.633 30.995	32.000 33.409	39.252 40,790
18	22,760	25.989	28.869	32.346	34.805	42.312
19	23,900	27.204	30.144	33.687	36.191	43,820
20	25.038	28,412	31.410	35.020	37.566	45.315
21 22	26.171 27.301	29.615 30.813	32.671 33.924	36.343 37.659	38.932 40.289	46.797 48.268 49.728
3	28.429	32.007	35.172	38.968	41.638	
24		33.196	36.415	40.270	42,980	51.179
25	29.553 30.675	34.382	37.652	41.566	44.314	52.620
Z Z	31.795 32.912	35.563 36.741	38.885 40.113	42.856 44.140	45.642 46.963 48.278	54.052 55.476 56.893
2	34.027	37.916	41.337	45.419	S THE RESERVE AND ADDRESS OF THE RESERVE AND ADD	58.302
39	35,139	39.087	42.557	46.693	49,588	59.703
No.	36.250	40.256	43.773			DE NE