Tutorial - I Page No. Sampling of Variables. after a angle of medication for as many side Q-1 A machine which produces mica insulating washers for use in electric device to turn out washers having a thickness of 10 mm. A sample of 10 washers has an average thickness 9.52 mm with a standard deviation of 0.6-mm. Find out to Q-21 Ten individuals are chosen at random from a papulation and their heights are found to be in inches 63, 63, 64, 65, 66, 69, 70, 70, 71. Discuss the suggestion that the Mean height of universe is 65. I for a degree of freedom, t at 5.1. level of significance = 2.2627 a red lud support multipor tre palamos mil. Q.3 A sandon sample tot size 16 values from a normal population showed a mean of 53 and a sum of squares of nderration of som the mean equals to 150. Can this sample be regarded as taken from the population having 56 cas mean 9 obtain 95.1. and agolo confidence limits of the mean of the population, all in more the ent of Y=15 7 2 = 0.015 3916 = 201314 9-1121890-97 06 2 = 0.011, to= 21.9471. [NI) 1000 15 1000 Two independent samples of & and 7 Hems resp. had 0.4 the following values of the variable (weight in ounces): Sample 1: 9 11: (13/1011 2/15) 19+ 12 MILLIAND AND 8-0 Sample 2: 10, 12 10 14 9 8 10 Is the difference between the means of the sample significant? [ Cover for V=13, to.05 = 12.16] Q.5 Memory capacity of 9 students was tested before and

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	Test whether the colour of the son's eyes is
Ŷ	associated with that of the faithers.
est.	I aires : value of x2 19 3.84 for 2 d.o.f. J.
con.	0.434
0.9	From the following table, showing the mumber of
	plants having contain characters, test the hypothous-
	that the flower colows is independent of fictuess
44	not healt distach plant of an atomicion
	Flat leaves Cristed leaves it Total
+.0	White Flowers niggrand one 36 36
11	Red Flowers 1 20 di Ni Estato la 16 25
	and more total and super to all 41 and constitute
+5	[x2] =0.01.58 rat 0.1 - 6.0.5. for 1 D.0. F. ]
	hi tab
0.10	A set of five similar coins is tossed 320 times and
90	the resultances standards 22 to 2 or ant 11-10
-6	induited heards ton it to 2 mon 3 mon 4 in 5 grunds
han	Frequiency Pro16 2+ 72 min2 ma 71 mm 32
,	Test the Mypothesis that the data follow a
,	Test the Mypothesis that the data tollow a
,	Test the Mypothesis that the data tollow a
,	Test the Mypothesis that the data tollow a
7-13	Test the Nypothesis that the data follow a bi-nomial distribution to the data follow a  [72 = 11.07 for 5 d.o.f.]
Qell	Test the hypothesis that the data follow a binomial distribution to the following data and
Qell	Fit a poisson distribution to the following data and test the goodness of fit.
Qell Add	Test the Mypothesis that the data follow a binomial distribution to the following data and  Fit a poisson distribution to the following data and  test the goodness of fit.
Qell Add	Test the Mypothesis that the data follow a binomial distribution to the following data and  Fit a poisson distribution to the following data and  test the goodness of fit.
Qell And	Fit a poisson distribution to the following data and test the goodness of fit.

	Answers! > 10 10 10 10 10 10 10 10 10 10 10 10 10
Q. 1 1	t=10-2.526 · · · · · · · · · · · · · · · · · · ·
	$\theta$
Q-2	trail tab. Ho accepted i.e. Mean height is 65.
0.3	The sample connut be regarded as taken from
	the first of the state of the opposite
10.2	tra & tab, the difference between the means of
	samples is not significant.
	hataent ill about tout to
Q-5	to 2 to b, the accepted le the training was not effective
	in improving pertomance
3.0	1852 ANT ARECORD 1800 ANT 1800
<u> </u>	tout I tab , to rejected like Difference is significant
0.7	to > tab, Ho rejected, Hi is accepted.
	Type I is definitely superior to Type II.
Q.G	X2 > x2 Ho rejected.
0.9	X2 > X2 Ho 15 Woung.
0.10	x2 x2 Ho 15 reported.
Q·1)	2 > 2 P.D. Is not good fit.