SATYUG DARSHAN INSTITRUTE OF ENGINEERING & TECHNOLOGY, FARIDABAD

Department of Applied Science & Humanities

Subject Name & Code: **Mathematics-II BSC/106E**	Session: 2023-24
Maximum Marks: 20	Submission Date: 16th February 2024

Assignment No-1

CO 5	To learn how to formulate and test hypotheses about means, variances and proportions and to draw conclusions based on the results of statistical tests.

Q. No. 1. Find the least square approximation of second degree for the discrete data:

X	-2	-1	0	1	2
Y	15	1	1	3	10

Q. No. 2. A normally distributed population has mean 6.8 and standard deviation 1.5. A sample of size 400 has been 6.75.

   Is the difference between the population mean and sample mean.

Q. No. 3. Fit a straight line to the following data

X	0	1	2	3	4
Y	1.0	1.8	3.3	4.5	6.3

Q. No. 4. In a sample of 1000 people in Haryana, 540 are rice eaters and the rest are wheat eaters. Can we assume that both rice and wheat are Equally popular in this state? (Test at 1% level)