



Fall Semester -2022

Digital Assignment -1

Course Name & Code: Applied Statistical Methods-MAT 5007

Answer ALL the questions.

1. Calculate mean, median and mode of the following data.

x	0-10	10-20	20-30	30-40	40-50	50-60	60-70
f	10	20	35	40	25	25	15

2. Calculate median and mean deviation of the following data.

x	0-10	10-20	20-30	30-40	40-50	50-60	60-70
f	10	20	35	40	25	25	15

3. The table below gives the respective heights X and Y of a sample of 12 fathers and their sons. Find the equation of regression line of Y on X.

Ht of father(x)	65	63	67	64	68	62	70	66	68	67	69	71
Ht of son(y)	68	66	68	65	69	66	68	65	71	67	68	70

4. Find the coefficient of correlation between price and supply of a commodity from the following data.

Price (Rs)	17	18	19	20	21	22	23	24	25	26
Supply (in kg)	38	37	38	33	32	33	34	29	26	23

- 5 The incidence of a certain disease is such that on the average 20% of workers suffer from it. If 10 workers are selected at random, find the probability that
- (i) Exactly 2 workers suffer from the disease,
 - (ii) not more than two workers suffer from the disease.