



Assignment: 1

1. Do as Directed.

- I. Define term Median.
- II. What is Correlation Coefficient?
- III. If $r=0.6$, $b_{yx} = 1.2$ then $b_{xy} = ?$
- IV. Explain Univariate and Bivariate frequency distribution.
- V. Define Regression
- VI. Find Variance for following data,
4, 6, 10, 12, 18
- VII. Find Range and Coefficient of Range,
8, 6, 4, 3, 9, 7, 5, 2

2. The intelligence of 510 pre-university students of a college is as follows, Find Median.

I.Q.	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99
Number of students	41	52	61	190	67	45	40	14

Assignment: 2

1. Find Mode of the Given Data.

Class	93-97	98-102	103-107	108-112	113-117	118-122	123-127	128-132
Frequency	2	5	12	17	14	6	3	1

2. Find Quartile Deviation and Coefficient of Quartile deviation.

Class	4-8	8-12	12-16	16-20	20-24	24-28	28-32	32-36	36-40
Frequency	6	10	18	30	15	12	10	6	2

**SEM-3:301-Statistical Methods****Assignment: 3**

1. The following data relate to the age of a group of workers. Calculate arithmetic mean and standard deviation. Also calculate coefficient of variation.

Age	20-25	25-30	30-35	35-40	40-45	45-50	50-55
Number of workers	170	110	80	45	40	30	25

2. Calculate correlation coefficient using following data:

$$n=10, \sum x = 650, \sum y = 660, \sum (x - 65)^2 = 15398, \sum (y - 66)^2 = 12224, \sum (x - 65)(y - 66) = 12704$$

Assignment: 4

1. Calculate rank correlation of the given data.

X	48	33	40	9	16	16	65	24	16	57
Y	13	13	24	6	15	4	20	9	6	19

2. Find equation of regression line of Y on X and X on Y.

X	1	2	3	4	10	-3	-1	9
Y	10	8	6	4	0	4	5	-1

Note:-

- **Assignment 1 and 2 questions must be written in one Assignment book and Assignment 3 and 4 questions must be written in another Assignment book. (Attach extra pages if needed)**
- **Late Assignment submission will not be accepted.**
- **Date of Submission will be declared later.**

-Ms. Pooja Gurav
Prof. (BCA)