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GIET UNIVERSITY, GUNUPUR – 765022

B. B. A (FIRST YEAR – BACK PAPER) Examinations, April' 2021

FBBA1.3 – QUANTITATIVE TECHNIQUES

Time: 2 hrs

Maximum: 50 Marks

Answer **ALL** Questions

All questions carry equal marks

- 1.a. Define classification. What part does it play in Statistics? State the different methods of classification of statistical data.

(OR)

- b. What is tabulation? What are the general rules of tabulation?
- 2.a. You are given below a certain statistical distribution:

Value:	Less than 100	100-200	200-300	300-400	400 and above
Frequency:	40	89	148	64	39

Find the mean by using step deviation method.

(OR)

- b. The frequency distribution of heights of 100 college students are as follows:

Height(cm)	141-150	151-160	161-170	171-180	181-190
Frequency	5	16	56	19	4

Find Q_1 and Q_3 ; Median and calculate D_6 and D_2 .

3. a. Find out Standard deviation from the following table giving the age distribution of 540 members of a parliament:

Age in year:	30	40	50	60	70
Number of members:	64	132	153	140	51

(OR)

- b. Find the Coefficient of variation of the following data:

Marks:	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50
Number of students:	4	10	16	12	8

4. a. Find the Mean Deviation about the A.M. from the following data:

Daily wages(Rs)	8 – 11	12 – 15	16 – 19	20 – 23	24 – 27
Number of workers	5	11	20	10	4

(OR)

- b. Calculate Rank correlation coefficient from the following marks given out of 200 by two judges, X and Y, in a music competition to 8 participants:

Sl No.	1	2	3	4	5	6	7	8
Marks awarded by X	74	98	110	70	65	85	88	59
Marks awarded by Y	121	133	170	102	90	152	160	85

5. a. Calculate Pearson's coefficient of correlation between advertisement cost and sales as per the data given:

Advertisement cost (in '000 Rs)	39	65	62	90	82	75	25	98	36	78
Sales (in lakh Rs.)	47	53	58	86	62	68	60	91	51	84

Find the Probable and Standard Error and comment on your answer.

(OR)

- b. Find two regression equations from the following data:

X: 57 58 59 59 60 61 62 64

Y: 77 78 75 78 82 82 79 81

Estimate the value of Y when the value of X is 65.

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