

**Dr.SNS RAJALAKSHMI COLLEGE OF ARTS & SCIENCE**  
**CIA-I EXAMINATIONS August 2023**  
**(First Semester)**  
**BBA/BCom PA/ BCom (Fin)/BBA CA**  
**Fundamental of Business Statistics(21UCL301)**

**Time: Three Hours**

**Maximum: 75 Marks**

**SECTION - A (5x5=25 Marks)**

Answer **ALL** Questions

**ALL** Questions Carry **EQUAL** Marks

1. a) Population of India in 5 census year is given. Label this by simple bar diagram

Year	1951	1961	1971	1981	1991
Population (Crores)	36	44	55	68	84

OR

b) Find the Arithmetic Mean

Height	120	122	124	126	128	130
No of students	5	7	9	6	4	10

2.a) Construct a Multiple bar diagram

Year	Sales(Rs)	Gross profit(Rs)	Net profit(Rs)
1974	100	30	10
1975	120	40	15
1976	130	45	25
1977	150	50	25

OR

b) Find Median

6,9,21,5,7,-2,0,32,9

3.a) Construct a Histogram for the following data

Size	2-5	5-8	8-11	11-14	14-17	17-20
frequency	15	20	30	40	25	10

OR

b) Find Geometric Mean

x	10	15	25	40	50
f	4	6	10	7	3

4.a) Explain the various types of diagram.

OR

b) Find mean

6,9,21,5,7,2,0,32,9

5. a) Calculate the Mean

Family	A	B	C	D	E	F	G	H	I	J
Expenditure	30	70	10	75	500	8	42	250	40	36

OR

Explain the relationship between the mean, median and mode.

**SECTION - B (5x8=40 Marks)**

Answer **ALL** Questions  
**ALL** Questions Carry **EQUAL** Marks

6.a) Construct a Histogram for the following data

Class interval	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
frequency	10	25	36	46	52	31	28	22

OR

b) Explain about the classification and tabulation and also write the difference between them.

7.a) Prepare a frequency table using tally marks for the following values

37	47	32	26	21	41	38	41	50	45	52	46	37	45
31	40	36	32	47	37	47	50	40	45	51	52	38	26
41	33	38	39	38	48	41	36	41	41	52	44	45	40
48	46	16	30	40	37	32	40	38	50	38	39	25	23

OR

b) Identify the Harmonic Mean

Value	0-10	10-20	20-30	30-40	40-50
frequency	8	12	20	6	4

8. Draw a frequency polygon for the following data

CI	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
frequency	4	6	7	14	16	14	8	16	5

OR

b) Compute Median for the following data

Mid Value	115	125	135	145	155	165	175	185	195
frequency	6	25	48	72	16	60	38	22	3

9. a) Label a histogram and frequency polygon

Size	30-40	40-50	50-60	60-70	70-80
frequency	3	5	12	8	4

OR

b) Examine Mode by using analysis table

Value	0-10	10-20	20-30	30-40	40-50	50-60	60-70
frequency	18	41	90	131	140	54	15

10.a) Calculate the Arithmetic Mean for the following data

120, 123, 320, 457, 320, 165, 157

OR

b) Construct the median

12, 21, 24, 24, 67, 75, 96

**SECTION - C (1x10=10 Marks)**

**(Compulsory)**

11. Draw a Histogram, frequency polygon and frequency curve for the following data

Age (in years)	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No of persons	5	12	19	21	18	10	4