

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2022 ONLY)

22UCC4A4

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : MAY-2024
COURSE NAME: B.Com.-C.A **MAXIMUM MARKS: 50**
SEMESTER: IV **TIME : 3 HOURS**

PART - III
BUSINESS STATISTICS

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. The term statistics is derived from the German word_____.
a) state b) status c) statistic d) stat.
2. Which average is affected most by extreme observations?
a) Mode b) median c) median d) weighted mean.
3. Important method of studying dispersion is _____.
a) MD b) QD c) SD d) all of these.
4. What is the value of 'R' if correlation is perfectly positive?
a) -1 b) +1 c) 0 d) 0.5
5. The term regression was first used by _____.
a) Sir Francis Galton b) Karl Pearson c) Spearman d) Bowley

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. Explain the term "Statistics".
7. Define Median.
8. Distinguish between mean deviation and standard deviation.
9. What is correlation?
10. Explain the term regression.

SECTION – B

(5 X 3 = 15 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Describe the characteristics of statistics .

(OR)

- b) List out the limitations of statistics.

- 12.a) Calculate the median for the following

Value	0-9	10-19	20-29	30-39	40-49	50-59	60-69
F	328	720	664	598	524	378	244

(OR)

- b) Calculate G.M for the data given below

X	10	15	25	40	50
F	4	6	10	7	3

(CONTD.....2)

13. a) Calculate range and its coefficient from the following distribution

Size	60-62	63-65	66-68	69-71	72-74
Number	5	18	42	27	8

(OR)

- b) Calculate mean deviation from the following.

7	4	10	9	15	12	7	9	7
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14. a) List out various the types of correlation.

(OR)

- b) Calculate Karl Pearson's coefficient of skewness for the following data

25	15	23	40	27	25	23	25	20
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15. a) Explain the Uses of regression.

(OR)

- b) You are given the following data

	X	Y
Arithmetic mean	36	85
Standard deviation	11	8

Calculate Correlation co-efficient between X and Y

Find the two regression equations.

SECTION – C

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

(K4 (Or) K5)

16. a) Outline the various functions of statistics .

(OR)

- b) Solve that the monthly income of 12 families in town from the following information:

S.no	1	2	3	4	5	6	7	8	9	10	11	12
Income (Rs)	280	180	96	98	104	85	80	94	100	75	600	200

17. a) Calculate the mode for the following data using grouping and analysis table

Class interval	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40
Class interval frequency	9	12	15	16	17	15	10	13

(OR)

- b) Construct the harmonic mean from the following data.

X	10	12	14	16	18	20
F	5	18	20	10	6	1

18. a) Compute SD from the following.

Class interval	0-10	10-20	20-30	30-40	40-50	Total
F	2	5	9	3	1	20

(OR)

- b) Discuss QD. Give the merits and demerits of Q.D

(CONTD.....3)

19. a) Two judges in a beauty contest rank the 12 entries as follows

X	1	2	3	4	5	6	7	8	9	10	11	12
Y	12	9	6	10	3	5	4	7	8	2	11	1

Compute the rank correlation between the two

(OR)

- b) Compare the skewness of A and B

	Q1	M	Q3
Series A	40	60	80
Series B	62.85	65.25	72.15

20. a) Distinguish between correlation and regression .

(OR)

- b) Compute the two regression equation from the following data.

X	10	12	13	12	16	15
Y	40	38	43	45	37	43
