

( NO. OF PAGES: 2 )

(FOR THE CANDIDATES ADMITTED

SUB CODE: **22UEO5E1**

DURING THE ACADEMIC YEAR 2022-2023 ONLY)

REG.NO. :

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI**

**END-OF-SEMESTER EXAMINATIONS : NOV-2024**

**BA( ECONOMICS)**

**MAXIMUM MARKS: 50**

**SEMESTER: V**

**TIME : 3 HOURS**

**PART - III**

**STATISTICAL METHODS-I**

**SECTION – A**

**(10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.(K1)**

1.The headings of the rows given in the first column of a table are called

(a) stubs (b) captions (c) titles (d) prefatory notes

2. Which of the following is a one -dimensional diagram

(a) Bar diagram (b) Pie- chat (c) Cylinder (d) Graph

3. The geometric mean of two numbers  $1 / 16$  and  $4 / 25$  is

(a)  $1/100$  (b)  $1/10$  (c) 10 (d) 100

4. . Formula for coefficient of variation is

(a)  $CV = 100/(\text{Mean} \times SD)$  (b)  $CV = (\text{Mean}/ SD) \times 100$

(c)  $CV = (SD \times \text{Mean}) / 100$  (d)  $CV = (SD/ \text{Mean}) \times 100$

5. The co-efficient of correlation is lies between

(a) 0 and 1 (b) -1 to 1 (c) -1 to 0 (d) 1 to 2

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES**

**(K2)**

6. Define Primary data.

7. State the types of one dimensional diagram.

8. Define Mode.

9. Explain Standard deviation.

10. Define the term “correlation”

**SECTION – B**

**(5 X 3 = 15 MARKS)**

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

11. a) Write the methods of collecting primary data.

**(OR)**

b) Explain secondary data.

12. a) Write the parts of a good table.

**(OR)**

b) State the types of classification.

13. a) Find Arithmetic mean to the data given below.

20, 30, 26,29,38, 35

**(OR)**

b) Explain Harmonic mean.

14. a) If  $Q1 = 30$ ,  $Q3 = 60$  then find QD.

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(OR)

b) If mean of 10 observations is 35 and its SD is 2.3 then find the coefficient of variation.

15. a) Write the properties of correlation.

(OR)

b) If  $b_{xy} = 0.675$  and  $b_{yx} = 0.365$  then find the co-efficient of correlation.

**SECTION – C**

**(5 X 5 = 25 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 /K5)**

16. a) Explain various methods of collecting secondary data.

(OR)

b) Write scope of statistics.

17. a) Explain various diagrammatical representations of statistical data.

(OR)

b) Write the qualities of a good table.

18. a) Find Median to the data below.

X:	10	20	30	40	50	60	70	80
f :	2	8	11	16	12	10	5	2

(OR)

b) Find Mode to the data below.

Mid X:	10	20	30	40	50	60	70
f:	3	5	8	11	9	3	2

19. a) a) Find Standard deviation to the data below.

Roll Number:	1	2	3	4	5	6
Marks :	25	35	32	40	41	27

(OR)

b) b) Explain the types of skewness.

20. a) Find the co- efficient of correlation to the data below.

x:	20	21	32	26	28	29	26
Y:	30	27	23	19	30	21	22

(OR)

b) Write the difference between correlation and regression coefficient.

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22UEO5E1