(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2020 ONLY)

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REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS: DECEMBER-2022

COURSE NAME : B.A.-ECONOMICS   MAXIMUM MARKS: 70

SEMESTER: V   TIME: 3 HOURS

PART - III
STATISTICAL METHODS - I

SECTION – A   (10 X 1 = 10 Marks)

ANSWER THE FOLLOWING QUESTIONS.
MULTIPLE CHOICE QUESTIONS.   (K1)

1. Which one of the following is not a source of secondary data?
   (a) Personal Contact   (b) Journal   (c) Records   (d) Newspaper

2. Classifying data on the basis of time is_____.
   (a) Serial   (b) Spatial   (c) Chronological   (d) Geographical

3. ---------- is one of the measures of central tendency.
   (a) Mean   (b) Median   (c) Mean Deviation   (d) Standard Deviation

4. Kurtosis refers to --------------
   (a) Symmetry   (b) Peakedness   (c) Histogram   (d) None of these

5. The coefficient of correlation --------------------

   (a) can be less than 1   (b) can be more than 1
   (c) can be more than 1   (d) varies between $\pm$ 1

ANSWER THE FOLLOWING IN ONE OR TWO SENTENCES. (K2)

6. Define 'Statistics'.
7. What do you mean by Tabulation?
8. What is Geometric mean?
9. Define 'Skewness'.
10. What is meant by Correlation?

SECTION – B   (5 X 4 = 20 Marks)

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

11. (a) Write the scope of statistics.
                          (OR)
    (b) State the various methods of collecting primary data.

12. (a) Marks scored by 30 students are given below:

41	55	48	47	53	48	33	32	42	55
44	38	60	65	71	80	41	53	47	48
55	20	31	34	42	51	35	30	26	25

Convert the marks into a continuous series of a class-interval of 10.
                          (OR)
    (b) Distinguish between classification and tabulation.   **(CONTD….2)**

13. (a) Write the functions of an average.

(OR)

(b) The following are the marks scored by 7 students:

Roll Number:	1	2	3	4	5	6	7
Marks :	45	32	18	57	65	28	46

Find out the median marks.

14. (a) What are the purposes of measuring dispersion?

(OR)

(b) Calculate mean deviation from the following data:

X	2	4	6	8	10
f	1	4	6	4	1

15. (a) What are the types of correlation?

(OR)

(b) Distinguish between regression and correlation.

SECTION - C   **(4 X 10 = 40 MARKS)**

ANSWER ANY FOUR OUT OF SIX QUESTIONS
(16ᵗʰ QUESTION IS COMPULSORY AND ANSWER ANY THREE
QUESTIONS (FROM Qn. No : 17 to 21)   (K4 (Or) K5

16. What are the characteristics of statistics?

17. Explore the types of classification.

18. The following data show the number of accidents sustained by 100 drivers of a company in a particular year. Draw a suitable diagram.

Number of accidents:	1	2	3	4	5	6	7	8
Number of drivers:	2	18	15	10	13	22	9	11

19. The following table gives the weight of 31 persons in sample survey:

Weight:	130	135	140	145	146	148	149	150	157
Number of Persons:	3	4	6	6	3	5	2	1	1

Calculate geometric mean.

20. Discuss the various methods of measuring dispersion.

21. From the following data calculate the rank correlation coefficient after making adjustment of tied ranks.

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

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ETHICAL PAPER