

Roll No. \_\_\_\_\_

Total No. of Questions : 13]

[Total No. of Printed Pages : 4

**UA-496**

**M.B.A.(Plain)/M.B.A.(Gen.Mgt./Mkt. Mgt./  
Hum. Res. Mgt./Fin. Mgt./Mkt. & Sales Mgt./  
Fin./Mkt./Busi. Ana./Opr. Mgt.) (F.T.)**

**I<sup>st</sup> Semester (Reg./Ex/ATKT)**

**Examination, 2023-24**

**Quantitative Methods**

**Paper - CP-102**

**Time : 3 Hours]**

**[Maximum Marks : 80**

**Note :- Attempt both sections.**

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(1)

P.T.O.

**SECTION - 'A'**

**Short Answer Type Questions**

**4×8=32**

**Note :- Attempt any four questions. Each question carries 8 marks.**

1. What is meant by classification of data ? Explain the various types of classification with suitable examples.
2. Write the characteristics of ideal measures of central tendency.
3. What is the probability of getting "at most 2 heads" in a single throw of 5 coins.
4. The sales of a product for Five consecutive days are 23000, 40000, 29000, 53000 and 39000 respectively. Calculate the mean deviation from mean and its coefficient.
5. Write a short note on Poisson Probability Distribution.
6. Write a short note on index numbers and their utility.
7. In a partially destroyed laboratory record of an analysis of regression data, the following regression equations are found :  
 $8x - 10y + 66 = 0$  and  
 $40x - 18y - 214 = 0$   
Find the coefficient of correlation between x and y.

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(2)

8. Find the quartile deviation for the following data values,  
18, 12, 7, 10, 16, 6, 1, 12, 17, 14, 19

**SECTION - 'B'**

**Long Answer Type Questions 3×16=48**

**Note :-** Attempt any three questions. Each question carries 16 marks.

9. Explain time series, its components and utilities with suitable examples.
10. Define correlation and explain various types of correlation with suitable examples
11. Calculate mean, standard deviation and coefficient of variation for the following frequency distribution and comment on the results obtained. <https://www.onlinebu.com>

Profit (Rs. in crore)	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	8	12	20	30	20	10

12. A company is introducing a job evaluation scheme in which all jobs are graded by points. Following data represents the grade points and monthly pay scales (in Rs. thousand) for 8 jobs.

Job :	A	B	C	D	E	F	G	H
Points :	5	25	19	10	12	15	28	16
Pay :	3	5	7	6	6	7	8	7

Find the least squares line of regression for linking pay scale to points and estimate the monthly pay for a job graded by 20 points.

13. Explain the various types of probability and non-probability sampling procedures with examples.



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