

Roll No. 

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Total No. of Pages : 02

Total No. of Questions : 09

**BTTM (Sem. – 4)**  
**INTRODUCTION TO STATISTICS**  
Subject Code: BTTM-401-18  
M.Code: 77518  
Date of Examination : 10-01-2023

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION A**

**1. Answer the following :**

- a) Explain the term Secondary source of data.
- b) Define the term bar diagram.
- c) What do you mean by "False Base Line"?
- d) Mention any two characteristics of a good average.
- e) What are Deciles and Percentile?
- f) What is the co-efficient of Range?
- g) Define the meaning of simple and multiple Correlations.
- h) What are Give curve?
- i) Define the concept of weighted and unweighted Index.
- j) State any two components of Time Series.

## SECTION-B

2. What are the limitations of statistics?
3. State the essentials of a good questionnaire.
4. Define Index Numbers. Mention any four limitations of Index numbers.
5. Illustrate the method of locating Mode Graphically.
6. Calculate the Standard deviation of the following data :

<b>Age</b>	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
<b>No. of persons</b>	15	15	23	22	25	10	05	10

## SECTION-C

7. Discuss the meaning as well as the importance of statistics. What are the uses of statistics in business? Explain.
8. Describe the meaning and uses of index number. Also mention the number of problems in the construction of index.
9. Calculate Karl Pearson's coefficient of co-relation from the following data and interpret its value :

<b>Roll No. of Students</b>	1	2	3	4	5
<b>Marks (Economics)</b>	48	35	17	23	47
<b>Marks (Accountancy)</b>	45	20	40	25	45

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**