

F 4500

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Reg. No.....

Name.....

**FIVE YEAR B.Com./B.B.A., LL.B. (HONS.) DEGREE EXAMINATION
DECEMBER 2023**

Third Semester

FC 8/FB 8—BUSINESS STATISTICS

(2021 Admissions—Regular/2018, 2019 and 2020 Admissions—Supplementary)

Time : Three Hours

Maximum : 75 Marks

Part A

Answer any five of the following.

Each question carries 3 marks.

1. What is price index ?
2. Narrate the method of least square.
3. Give the algebraic properties of Geometric mean.
4. How will you determine combined mean ?
5. Mention any *three* methods to select a sample.
6. What do you mean by mode ?

(5 × 3 = 15 marks)

Part B

Answer any three of the following.

Each question carries 10 marks.

7. What are the various measures of dispersion ? Distinguish between absolute measure of dispersion and relative measure of dispersion.
8. What are the advantages and disadvantages of average ?
9. From the following data calculate standard deviation, and co-efficient of variation by direct method :

1	2	3	4	5	6	7	8	9	10
50	45	60	44	40	60	65	50	56	70

Turn over

10. Find out median from the following data :

10	15	20	25	30	35	40
3	7	10	15	8	5	2

(3 × 10 = 30 marks)

Part C

Answer any two of the following.

Each question carries 15 marks.

11. Define Statistics. Discuss the objectives, features and importance of statistics.
12. The following relate to the number of tourists visited in a spot from 2006 to 2015 :

<i>Year</i>	<i>No. of tourists visited (in thousands)</i>	<i>Year</i>	<i>No. of tourists visited (in thousands)</i>
2006	1590	2011	1300
2007	1515	2012	1430
2008	1365	2013	1775
2009	1135	2014	1920
2010	1065	2015	1990

Calculate five yearly moving average (Trend).

13. From the following data compute Laspeyre's, Paasche's, Fisher's Index numbers taking 200 as base year :

<i>Articles</i>	<i>2000</i>		<i>2006</i>	
	<i>Price</i>	<i>Quantity</i>	<i>Price</i>	<i>Quantity</i>
J	20	8	40	6
K	50	10	60	5
L	40	15	50	15
M	10	20	20	25

(2 × 15 = 30 marks)