

F 2813

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Reg. No.....

Name.....

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

Third Semester

FC 8/FB 8—BUSINESS STATISTICS

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

Time : Three Hours

Maximum : 75 Marks

Part A

Answer any five questions.

Each question carries 3 marks.

1. What is Random Sampling ?
2. Describe Frequency of Distribution.
3. State the mathematical properties of standard deviation.
4. Define quartile range.
5. Give the merits of giving average model.
6. What do you mean by kurtosis ?

(5 × 3 = 15 marks)

Part B

Answer any three questions.

Each question carries 10 marks.

7. Explain the functions and importance of statistics.
8. Elucidate the limitations of mode.
9. Mention the major problems associated with the construction of Index Number.
10. Fit a straight line trend equation by the method of least squares and estimate the trend values. Also estimate the value of the year 2016 :

Year	:	2008	2009	2010	2011	2012	2013	2014	2015
Value	:	80	90	92	83	94	99	92	104

(3 × 10 = 30 marks)

Turn over

Part C

Answer any two questions.

Each question carries 15 marks.

11. Define arithmetic mean, also bring out its merits and demerits.
12. With the median as the base, calculate the mean deviation and compare the variability of the two series A and B :

Series A : 3484 4572 4124 3682 5624 4388 3680 4308

Series B : 487 508 620 382 408 266 186 218

13. Explain the various methods of collecting Primary Data.

(2 × 15 = 30 marks)