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Reg. No.....

Name.....

**FIVE YEAR B.Com., LL.B. (HONOURS) DEGREE EXAMINATION
MARCH 2025**

Third Semester

F.C 8—BUSINESS STATISTICS

(2023 Admissions—Regular/2018 to 2022 Admissions—Supplementary)

Time : Three Hours

Maximum : 75 Marks

Part A

Answer any five questions.

Each question carries 3 marks.

1. Give the properties of an average.
2. What do you mean by Price Index ?
3. Narrate the meaning of Skewness.
4. Define Range.
5. How will you determine the Geometric mean ?
6. State the method of Least square.

(5 × 3 = 15 marks)

Part B

Answer any three questions.

Each question carries 10 marks.

7. Discuss the demerits of Harmonic mean.
8. What do you mean by Cost of living Index ? Discuss its uses.
9. Calculate the trend assuming a five year cycle for the data :

Year	:	2006	2007	2008	2009	2010	2011	2012	2013
Profit (Rs.)	:	154	145	155	210	161	319	355	360

Turn over

10. Find the mean and standard deviation :

Age (below)	:	10	20	30	40	50	60	70	80
No of Persons	:	15	30	53	75	100	110	115	125

(3 × 10 = 30 marks)

Part C

Answer any two questions.

Each question carries 15 marks.

11. Define Statistics. Discuss the importance and limitations of statistics.
12. Calculate mean deviation from the following data. What does it throw on the social conditions of the community? Difference in age between husband and wife are :

Difference in years	Frequency
0-5	449
5-10	705
10-15	507
15-20	281
20-25	109
25-30	52
30-35	16
35-40	4

13. Calculate Index numbers under Laspeyre's, Paasche's, Bowley's and Fisher's method :

Items	2005		2006	
	Price	Quantity	Price	Quantity
Wheat	2.0	80	2.50	90
Sugar	3.0	60	3.25	75
Milk	1.5	15	1.75	22.5

(2 × 15 = 30 marks)