



34324

Reg. No.

--	--	--	--	--	--	--	--

III Semester B.Com. Degree Examination, March/April - 2023

**COMMERCE****Business Data Analysis***(CBCS Scheme 2019-20 Onwards)***Time : 3 Hours****Maximum Marks : 70****Instructions to Candidates:**

Answers should be completely written in English only.

**SECTION - A****Answer any Five sub-questions. Each sub question carries 2 marks.****(5×2=10)**

1. a) What is Tabulation?
- b) What is a probable error?
- c) If  $\bar{x} = 12$ ,  $z = 13$  find median.
- d) What do you mean by trend?
- e) What is extrapolation?
- f) How to calculate mode if it is ICC defined?
- g) What do you mean by Regression Analysis.

**SECTION - B****Answer any Three questions. Each question carries 5 marks.****(3×5=15)**

2. Compute mean deviation and its co-efficient about mean from the following data.

47 111 79 69 50 75 84 66 99

3. Calculate Arithmetic mean.

Marks	0-25	25-50	50-75	75-100
No.of students	6	15	24	10

**[P.T.O.]**



4. Draw a simple Bar diagram from the following data relating to university student enrollment.

Year/Faculty	Science	Arts	Commerce.
2019-20	250	125	600
2020-21	225	110	728
2021-22	195	98	916
2022-23	180	79	1050

5. Calculate the trend values by applying least squares method.

Year	2016	2017	2018	2019	2020	2021	2022
Sales (in crores)	25	30	32	37	30	35	40

### SECTION - C

Answer any Three of the following questions. Each question carries 15 marks.

(3×15=45)

6. Compute standard deviation and its co-efficient from the following.

Wages	50	60	70	80	90	100	110	120
No.of workers	9	6	5	8	4	7	2	3

7. Calculate Karl Pearson's co-efficient of correlation from the following data of marks obtained by 10 students in class test.

Subject/Marks

Financial / Accounting :	40	45	50	65	60	52	16	81	90	28
Corporate Administration:	50	60	62	61	70	71	80	84	20	10

8. Calculate Mean, Median and Mode from the following data.

X	0-10	10-20	20-30	30-40	40-50	50-60
Y	5	12	8	50	40	62

9. Following data is relating to Kiran book publishing house, book sales for 7 years, compute the trend values by least square method and show them on a graph.

Year	2016	2017	2018	2019	2020	2021	2022
Sales (in lakhs)	60	90	120	150	162	190	210