



552489  
DCBD103

Reg. No.

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

I Semester B.Com. (B.D.A.) Degree Examination, March/April - 2024

COMMERCE

BUSINESS STATISTICS - I

(NEP Scheme Freshers and Repeaters)

Paper : 1.3

Time : 2½ Hours

Maximum Marks :60

**Instructions to Candidates:**

Answer all the questions in English only.



**SECTION - A**

Answer any FIVE of the following questions. Each question carries 2 marks. (5×2=10)

1. a) Mention the sources of Primary Data?  
b) What is Negative Correlation?  
c) Mean and Variance of 100 items are found to be 40 and 144. What is its C.V?  
d) What are measures of Central Tendency?  
e) Calculate the G.M. of the following : 3,8,9  
f) Define Mutually exclusive Events.  
g) What is Classification?

**SECTION - B**

Answer any FOUR of the following questions. Each question carries 5 marks. (4×5=20)

2. Calculate Mean Deviation from the following:

X:	20	23	25	30	33	40	42	45
f:	5	12	15	20	25	14	10	6

3. A basket contains 5 white , 3 red and 7 Black balls. Find out the probability of getting a white or black ball in a single draw.
4. If  $r = 0.6$  and  $N = 36$  of a distribution, find probable Error? Interpret 'r' from the result.

[P.T.O.]



5. Find Median from the following data:

Marks	20	30	40	50	60	70
Students	4	5	7	11	8	7

6. If the three quartiles of the distribution are respectively 14,21,26. Find
- The quartile deviation
  - The coefficient of quartile deviation and
  - Bowley's coefficient of skewness.

### SECTION - C

Answer any TWO of the following questions. Each question Carries 12 marks.

(2×12=24)

7. Calculate Median and Mode from the following data:

C.I	10-19	20-29	30-39	40-49	50-59	60-69	70-79
f	10	18	32	44	28	22	6

8. Calculate Karl Pearson's coefficient of Correlation between Pries and Sales from the following data and comment on the result. Also Calculate Probable Error.

Price	103	98	85	92	90	84	88	90	94	95
Sales	500	610	700	630	670	800	810	570	700	680

9. Following are the runs scored by two batsman A and B in series of innings:

Batsman A	60	50	40	80	90	30	70
Batsman B	60	50	40	30	80	70	20

Find out who is the better Scorer and who is more consistent.

### SECTION - D

Answer any ONE of the following questions. Each question carries 6 marks. (1×6=6)

10. Explain the methods of collecting Secondary data?
11. Draw a simple Bar diagram from the following data relating to the number of small Scale Units in various states during the year 2023.

States	Karnataka	T.N.	A.P.	M.P.	U.P.	H.P.
No. of Small Scale Units in ('000s)	55	68	40	75	85	70