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Exam. Code : 225801

Subject Code: 5481

M.Com. 1st Semester (Batch 2023-25) (CBGS)

STATISTICAL ANALYSIS FOR BUSINESS

Paper: MC-102

Time Allowed—3 Hours]

[Maximum Marks—75

Note: - Attempt FIVE questions in all, selecting at least ONE question from each section. The fifth question may be attempted from any section. All questions SECTION—A weeklypoetry.com carry equal marks.

- (a) Explain the Bayes' Theorem of Probability Distribution.
 - A bag contains 10 white and 5 black balls. Two (b) balls are drawn at random one after the other without replacement. Find the probability that both balls drawn are black.
- 8 unbiased coins are tossed 256 times. Find the expected frequencies of success (getting a head) and tabulate the results obtained using binomial distribution.

SECTION-B

- What do you mean by sampling? Explain the different 3. types of sampling techniques.
- What is the difference between qualitative and quantitative research? Explain the major sources of data collection 4. in qualitative research.

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SECTION-C

- Explain the steps involved in designing a questionnaire.
 Also explain the qualities of a good questionnaire.
- 6. What do you understand by the term Hypothesis? Elaborate the various types of Hypotheses in detail.

SECTION-D

7. The following figures relate to the number of units sold in five different areas by four salesmen, A, B, C and D:

Area	Number of Units				
	A	В	C	D	
1	80	100	95	70	
2	82	110	90	75	
3	88	105	100	82	
4	85	115	105	88	
5	75	90	80	65	

Is there any significant difference in the efficiency of these salesmen? Table values of F.05 for $v_1 = 3$, $v_2 = 16$ is 3.24.

8. The following table gives the frequency, according to the marks, obtained by 67 students in an intelligence test.

Measure the degree of Correlation between Age and Marks.

Marks.	AGE (in years)				
Test-Marks	18	19	20	21	
200-250	4	4	2	1	
250-300	3	5	4	2	
300-350	2	6	8	5	
350-400	1	4	6	10	