1. Collection, Classification, Tabulation and Diagrammatic Presentation of data. Measures of Central Tendency, Dispersion, Moments, Skewness and Kurtosis.

2. Correlation and Regression: Karl Pearson and Rank correlation coefficients, Multiple and Partial Correlation, Linear Regression.


4. Probability Distributions: Uniform, Binomial, Poisson, Exponential, Rectangular and Normal Distribution with properties and applications.

5. Sampling Distributions: Chi-squares, t and F Distributions.


8. Testing of Hypothesis: Concept of Hypothesis, Types of error in testing, Critical Region and level of significance, Neyman Pearsan Lemma and two tailed tests based on small and large samples.


10. Design of Sample Survey: Sampling Unit, Sampling frame, Sampling fraction, Sampling with and without replacement, Population Parameter and Sample estimator, efficiency, accuracy and precision, sampling and non sampling errors, Simple random sampling, Probability proportion to Size with replacement, Sampling with varying probability and without replacement, stratified random sampling, systematic sampling, cluster sampling, multistage sampling, ratio and regression methods of estimation.

12. **Time Series Analysis**: Components, Measurements of Trend, Seasonal, Cyclical and irregular variations.

13. **Index Number**: Uses, types and limitations of index numbers, construction of index numbers, simple and weighted aggregate method, Simple and weighted average price-relatives, Chain base index numbers, Base shifting, Splicing and Deflating of Index numbers, Cost of Living index numbers.


17. **Econometrics**: Assumptions of error term in econometric models, Problems of Multicollinearity, Auto-correlation, and heteroscedasticity.

18. **Main features of Rajasthan Economy**: Natural Resources, Agriculture, Livestock, Mining, Industry, Finance and Tourism Development.


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**Pattern of Question Papers** :

1 Objective Type Paper.
2 Maximum Marks : 100
3 Number of Questions : 100
4 Duration of Paper : Two Hours.
5 All Questions carry equal marks.
6 There will be **Negative Marking**.

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