

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.

M.Sc. - END SEMESTER EXAMINATIONS NOVEMBER - 2022

SEMESTER - III

20PBSCT3007 - Applied Multivariate Analysis

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section A

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Describe a Two - way Multivariate Analysis of Variance.
2. Explain the Procedure to test the Hypothesis for single covariance matrix.
3. Explain Factor Rotation in detail.
4. Interpret Principal Components.
5. Explain Correspondence analysis in detail.
6. Classify Attribute Independency and Contingency table.
7. Describe about the Standards of the good classification.
8. Distinguish between Single Linkage and Complete Linkage Methods.

Section B

Part A

Answer any **TWO** questions ($2 \times 10 = 20$ Marks)

9. Describe the steps involved in testing the equality of covariance matrices
10. Prepare and Present the Orthogonal Factor Model and its estimation.
11. Organize the procedure of testing Canonical Correlation and interpret its variables.
12. Evaluate Fisher's Linear Discriminant Function in detail.

Part B

Compulsory question ($1 \times 10 = 10$ Marks)

13. Distinguish between Hierarchical Clustering and Non - Hierarchical Clustering Techniques with examples.

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