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 APRIL - 2022
SEMESTER - II
20PBSET2002 - Categorical Data Analysis

Total Duration : 3 Hrs.   Total Marks : 60

Section A

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

1. Explain Odds ratio in detail.

2. Classify the relationship between odds ratio and relative risk.

3. Interpret the components of generalized linear models.

4. Ilustrate the test of overall regression and goodness of fit.

5. Describe the test of independence in two way tables using Yates correction for continuity.

6. Prepare ML estimators for Poisson Log- linear model.

7. Explain Wald test.

8. Describe McNemar's test.

Section B

Part A

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

9. Describe contingency tables in binomial sampling.

10. Explain the Fisher Exact test for 2 x 2 tables.

11. Examine Binomial GLM for 2 x 2 contingency tables.

12. Describe Logit models for Nominal responses.

Part B

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

13. Examine Loglinear models for Two-way tables.

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