

[LP 1019]

OCTOBER 2019

Sub. Code: 2865

**M.Sc. BIOSTATISTICS EXAMS  
SECOND YEAR  
PAPER I – APPLIED REGRESSION METHODS**

*Q.P. Code: 282865*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Residual analysis and methods of scaling residuals.
2. Log linear models for two and three way models.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Logistic regression.
2. Testing of multiple regression coefficients.
3. Ordinal, polytomous and count data.
4. Poisson regression.
5. Estimation of odds ratio.
6. Measures of agreement.
7. Collapsibility and model building in categorical data analysis.
8. Log rank test for censored data.
9. Proportional hazard model.
10. Stratified analysis.

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