

[LN 1018]

OCTOBER 2018

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. What are the measure of agreement? What are the conditional and unconditional probability models for binary variables?
2. What is Count data and Poission regression in Multiple regression?
What are the types of variables used in multiple regression with an example?

II. Write notes on:

(10 x 6 = 60)

1. Explain Logistic regression for ordinal data.
2. How to estimate odds ratio?
3. Explain residual analysis.
4. Hypothesis of homogeneity.
5. What are the measure of association?
6. Measure of Kappa and weighted kappa.
7. Conditional logistic regression.
8. Weibull for parametric distribution.
9. Log rank for uncensored data.
10. Cox's proportional Hazard model.
