

[LL 1017]

OCTOBER 2017

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. Explain multiple regression analysis in detail.
2. Describe log linear models for two and three way tables.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Explain ordinal, polytomous and count data.
2. Describe residual analysis.
3. Explain conditional models of a logistic regression analysis.
4. Describe the sampling distributions for discrete data.
5. How will you test the hypothesis of Independence in a contingency table?
6. Explain measure of agreement.
7. Explain Kaplan-Meier estimate.
8. Describe log-rank test and explain its uses.
9. What is meant by time dependant covariate?
10. What is stratified analysis?

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