

[LO 0519]

MAY 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. Multiple regression for continuous data and residual analysis.
2. Cox-proportional hazard model and log plot.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Sources of multicollinearity.
2. Logistic regression for ordinal data.
3. Dummy variables in multiple regression.
4. Poisson regression.
5. Contingency tables.
6. Relative risk and odds ratio.
7. Weighted Kappa measure of agreement.
8. Left and right censoring.
9. Logrank test for censored data.
10. Stratified analysis.

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