

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 0321]

**MARCH 2021**

**Sub. Code: 2865**

**(OCTOBER 2020 EXAM SESSION)**

**M.Sc. BIOSTATISTICS**

**SECOND YEAR (From 2011-2012 onwards)**

**PAPER I – APPLIED REGRESSION METHODS**

*Q.P. Code : 282865*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Assumptions of the model and fit in logistic regression.
2. Log linear models for two and three way tables.

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Sources of multicollinearity
2. Analysis of contingency tables.
3. Hypothesis of homogeneity and Independence.
4. Logistic model for ordinal data and Polytomous data.
5. Kappa measure of agreement.
6. Censored data.
7. Relative risk and odds ratio.
8. Weibull and exponential distribution.
9. Hazard functions.
10. Stratified analysis

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