Reg. No.:……

First Year MHA Degree Examinations, September 2013

PAPER III – RESEARCH METHODOLOGY & BIOSTATISTICS

Time: 3 Hours **Max Marks: 100**

- **Answer all the questions**
- **Write Section A and Section B in separate answer books. Do not mix up questions from section A and section B**

QP Code:103380 SECTION A – RESEARCH METHODOLOGY 50

Essay: **(20)**

1. We have been hearing of deaths due to improper safety measures in a hospital. Prepare a research plan to find out why the problem arises and what could be its effects on society.

Short Essay: **(10)**

2. Prepare two questionnaires to study the effects of motivation factors on performance of workers, one for workers and one for supervisors.

Short notes: **(4x5=20)**

3. Meaning and types of research.
4. Frequency curve
5. Classification of data and its importance.
6. Report writing.

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QP Code:104380 SECTION B – BIOSTATISTICS 50

Essay: **(20)**

1. Discuss in detail about measures of central tendency. Describe the merits and demerits of each type.

Short Essay: **(10)**

2. Calculate Standard Deviation and Variance of the following data.

Income	No. of persons
Above 0	100
Above 10	97
Above 20	89
Above 30	77
Above 40	57
Above 50	27
Above 60	12
Above 70	5
Above 80	0

Short notes: **(4x5=20)**

3. Binomial distribution.
4. Define correlation and regression. Mention briefly linear correlation and regression equation.
5. Histogram.
6. Five uses of biostatistics in health management.

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