First Year MHA Degree Supplementary Examinations, February 2015
(2013 Scheme)
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(32 pages)**
  Do not mix up questions from section A and section B

QP Code:123380   SECTION A – **RESEARCH METHODOLOGY**   **50**

Essay: **(20)**

1. Explain descriptive research design and differentiate it from experimental research design.

Short Essay: **(10)**

2. Draft a questionnaire to assess the job satisfaction of nurses in a hospital

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

3. Role of theory in research.
4. Types of tabulation
5. Differentiate between 'sources of data' and 'universe'.
6. Bias

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QP Code:124380   SECTION B – **BIOSTATISTICS**   **50**

Essay: **(20)**

1. The life of the bulbs produced by companies A and B are given below:

Length of life (in hours)	Company A (No. of Lamps)	Company B (No. of Lamps)
500-700	5	4
700-900	11	30
900-1100	26	12
1100-1300	10	8
1300-1500	8	6
	60	60

The bulbs of which company is more consistent from the point of view of length of life.   **(P.T.O)**

Short Essay: **(10)**

2.   In a certain sample of 2000 families, 1400 families are consumers of tea. Out of 1800 Hindu families, 1236 families consume tea. Use chi-square test to test whether there is any significant difference between consumption of tea among Hindu and non-Hindu families. (critical values of chi-square will be given)

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

3. Calculate mean from the following data.

Value	05	15	25	35	45	55	65	75
Frequency	15	20	25	24	12	31	71	52

4. Normal distribution

5. Different kinds of correlation

6. Pie Diagrams

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