First Year MHA Degree Examinations, September 2014
(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 the main aspects of questionnaire and differentiate it from schedule

Short Essay: **(10)**

2. Explain the tabulation of data and propose a model for tabulation of data for a study on in-patient satisfaction.

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

3. Data processing.
4. Differentiate between 'pre test' and 'pilot study'
5. Hypothesis.
6. Research Problem.

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

Essay: **(20)**

1. Find out Karl Pearson's coefficient of correlation between the age and playing habits of people from the information.

Age group(in years)	No. of people	No. of players
15 and <20	200	150
20 and<25	270	162
25 and <30	340	170
30 and <35	360	180
35 and<40	400	180
40 and<45	300	120

Interpret the calculated value of r   **(P.T.O)**

Short Essay: (10)

2. Calculate the median from the following data pertaining to the profits (in crore Rs.)of 125 companies:

Profit (Rs. Crore)	No. of companies
less than 10	4
less than 20	16
less than 30	40
less than 40	76
less than 50	96
less than 60	112
less than 70	120
less than 80	125

Short notes: (4x5=20)

3. Distinction between point estimation and interval estimation.

4. Explain the concept of regression.

5. State multiplication theorem of probability.

6. Find standard deviation from the following data.

Size : 2 3 4 5 6 7 8

Freq. : 1 2 3 5 3 2 1

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