

Reg. No.:.....

**First Year MHA Degree Regular/Supplementary Examinations  
August 2019**

**Paper III – Research Methodology & Biostatistics  
(2013 Scheme)**

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. Define “research problem”. Discuss techniques and factors to be considered while selecting research problem.

**Short Essay: (10)**

2. What is literature review in the research. Why literature review is important in any scientific study.

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

3. Observation method
4. Errors in sampling
5. Type 1 and type II errors
6. Content analysis

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

**Essay: (20)**

1. Discuss different types of measures of dispersion. Calculate mean, standard deviation and coefficient of variation for the following data.

C.I	Frequency
50 - 59	19
60 - 69	32
70 - 79	45
80 - 89	15
90 - 100	5
Total	116

**Short Essay: (10)**

2. Discuss application and uses of biostatistics in health management and epidemiology.

**Short Notes (4x5=20)**

3. Regression analysis
4. Characteristics of normal distribution
5. Chi square test
6. Non parametric tests

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