First Year MHA Degree Supplementary Examinations March 2024
Paper III – Research Methodology & Biostatistics
(Common for 2013 and 2016 Scheme)

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

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Ordinary calculator and logarithm table may be permitted to the students.*
- *Write SECTION A and SECTION B in separate Answer books (32Pages). Do not mix up questions from Section A and Section B*

QP Code: 123380   **Section A – Research Methodology**   **50**

Essay: **(20)**

1. What do you understand by the term "Research". Explain the different types of research with appropriate examples from healthcare

Short Essay: **(10)**

2. What is Sampling error. Explain the types of Sampling errors

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

3. Simple random sampling
4. Explorative research design
5. Formulation of research problem
6. Bar diagram and Histogram

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QP Code: 124380   **Section B – Biostatistics**   **50**

Essay: **(20)**

1. Minor surgical procedures performed monthly by ENT department was:

    15, 18, 25, 40, 25, 18, 25, 21, 30, 33, 12 and 25

    a) Find the range, median, mode, mean and SD of monthly operation

    b) What do you understand by a normal distribution curve. What are its features

Short Essay: **(10)**

2. Explain Health statistics and Vital statistics with suitable examples

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

3. Linear regression
4. Chi square test
5. Interval estimation
6. Importance of biostatistics in healthcare

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