

Reg. No.:.....

**First Year MHA Degree Supplementary Examinations March 2022**

**Paper III – Research Methodology & Biostatistics  
(2013 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. Define Research. List significance of research in various fields. Explain different types of research.

**Short Essay: (10)**

2. Explain sample and sampling. Mention various types of sampling techniques. Explain systematic sampling technique.

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

3. Pilot study.
4. Tabulation.
5. Hypothesis.
6. Interpretation.

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

**Essay: (20)**

1. Define Mean, Median and Mode. Calculate the same for the following data.

Hb level	No. of patients
9 – 10	10
10 – 11	17
11 – 12	32
12 – 13	20
13 – 14	16
15 – 16	7
Total	102

**Short Essay: (10)**

2. Explain correlation through scatter plot.

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

3. Standard deviation.
4. Chi square test.
5. Laws of probability.
6. Mean deviation.

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