

**First Year MHA Degree Supplementary Examinations March 2021**

**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
- 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 are research problem and its significance in research. Discuss various sources of research problem.

**Short Essay:      (10)**

2. Describe descriptive research design.

**Short notes:      (4x5=20)**

3. Qualitative and quantitative data.
4. Ethics in research.
5. Criteria of a good sample.
6. Observation method of data collection.

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

**Essay:      (20)**

1. Explain Measures of dispersion. Calculate standard deviation and coefficient of variation for the following data.

Age (Yrs)	No. of patients
20 – 30	14
30 – 40	25
40 – 50	40
50 – 60	31
60 – 70	30
70 – 80	10
Total	150

**Short Essay:      (10)**

2. Test whether groups and outcome are associated. The critical value = 3.84 at 5% level of significance.

Out Come \ Groups	Present	Absent
	A	14
B	20	200

**Short Notes      (4x5=20)**

3. Binomial distribution.
4. Steps in testing of hypothesis.
5. Ogives.
6. Rank correlation coefficient.

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