

Reg. No.:.....

**First Year MHA Degree Regular/Supplementary Examinations
November 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. Explain research design. Mention important features of research design. Explain descriptive research design.

Short Essay: (10)

2. Explain Data in research. Explain questionnaire method of data collection.

Short notes: (4x5=20)

3. Objectives.
4. Simple random sampling.
5. Literature review.
6. Report writing.

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QP Code: 124380 SECTION B – BIOSTATISTICS 50

Essay: (20)

1. Discuss various steps of testing of hypothesis. parametric and non-parametric tests. Test the significant difference between the groups A and B with respect to treatment outcomes.

	Treatment Outcome		
	Expired	Partially recovered	Fully recovered
Group A	5	20	25
Group B	7	25	18

Short Essay: (10)

2. Calculate Karl Pearson coefficient of correlation for the following data and hence interpret the results.

X	50	20	40	30	40	30	50	20
Y	100	40	60	40	30	50	90	50

Short Notes (4x5=20)

3. Classification and tabulation.
4. Merits and demerits of mean.
5. Utilities of standard deviation and coefficient of variation.
6. Laws of probability.
