

Reg. No.:

First Year MHA Degree Supplementary Examinations March 2025
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*
- *Simple calculator shall only be permitted*
- *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. Write an essay on the components of a research report, including details on the steps in testing the hypothesis.

Short Essay:

(10)

2. Explain in detail various methods of primary data collection, stating the advantages and disadvantages.

Short notes:

(4x5=20)

3. Ogive.
 4. Multistage and Multiphase sampling.
 5. Action research programmes.
 6. Types of tabulation.
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QP Code: 124380

Section B – Biostatistics

50

Essay:

(20)

1. Following a surgery, doctors assessed the pain among the 10 patients after 48 hours (post-surgery).
10, 7, 3, 5, 5, 10, 6, 4, 1, 2
 - a) Find the median, mode, mean and mean deviation of the pain scores.
Comment on the skewness.
 - b) Write a detailed note on birth, morbidity, mortality and fertility rates.

Short Essay:

(10)

2. Write in detail the null hypothesis, two-sided alternative hypothesis, assumptions and examples for two-sample independent t-test.

Short Notes:

(4x5=20)

3. Spearman's Correlation.
4. Spot map and Scattergram.
5. Interval estimation for mean and proportion.
6. Linear regression.
