

Reg. No.:

First Year MHA Degree Regular/Supplementary Examinations
August 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. Write an essay on research design and sampling design, highlighting types, methods and steps in designing research steps and selecting sampling methods.

Short Essay:

(10)

2. Explain in detail various methods of types of tabulation and presentation of data.

Short notes:

(4x5=20)

3. Experimental research
4. Techniques of report writing
5. Planning evaluation
6. Graphical methods of categorical data

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QP Code: 124380

Section B – Biostatistics

50

Essay:

(20)

1. A hospital recorded the number of patients admitted each day over a 10-day period. The data is as follows: 15, 20, 18, 22, 20, 15, 18, 20, 22, 20
 - a) Find the median, mode, mean and mean deviation of the pain scores. Comment on the skewness.
 - b) Write a detailed note on various rates, ratios and proportions used in vital statistics.

Short Essay:

(10)

2. Write in detail on correlation, types of correlation and differences between correlation and linear regression.

Short Notes:

(4x5=20)

3. Application and uses of biostatistics in health management and epidemiology
4. Tests for proportion
5. Binomial distribution and its uses
6. Level of significance, Null and Alternative hypothesis
