

First Year MHA Degree Supplementary Examinations February 2019**Paper III – Research Methodology & Biostatistics
(2013 Scheme)****Time: 3 Hours****Max Marks: 100**

- Answer all the questions
- Write Section A and Section B in separate answer books (32 pages) Do not mix up questions from section A and section B

QP Code: 123380 Section A – Research Methodology 50
Essay: (20)

1. Discuss various sources of secondary data and methods of collecting primary data.

Short Essay: (10)

2. Discuss experimental research design. Explain utilities of experimental design in hospital administration.

Short notes: (4x5=20)

3. Multistage sampling
4. General rules of tabulation
5. Steps in hypothesis testing
6. Interpretation

.....

QP Code: 124380 SECTION B – BIOSTATISTICS 50

Essay: (20)

1. Define “standard deviation and coefficient of variation”. From the following data find which hospital shows more variability with respect to patient satisfaction index

Month	Hospital Index (%)	
	Hospital A	Hospital B
JAN	88	90
FEB	80	88
MAR	89	93
APR	90	85
MAY	78	83
JUN	72	84
JUL	80	85
AUG	79	81
SEP	76	82
OCT	77	82
NOV	80	82
DEC	72	83

Short Essay: (10)

2. Explain the process of testing of hypothesis. Mean BMI of rural girls (n=105) was 22.5 with S.D = 3.6 and that of Urban girls (n=150) was 26.3 with S.D = 5.2. Is the difference in BMI between rural and urban girls significant.

Short Notes (4x5=20)

3. Significance of statistics
4. Types of measures of central tendency
5. Types of correlation
6. Interval estimation
