

**B.Sc. MEDICAL RECORD SCIENCE**  
(Candidates admitted from 2010-2011 onwards)

**SECOND YEAR**

**PAPER I – BIOSTATISTICS AND HOSPITAL STATISTICS**

*Q.P. Code: 801711*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:** **(3 x 10 = 30)**

1. Discuss the various methods of sampling.
2. State the steps followed in Research.
3. Test if the number of mistakes in filing the charts is associated with the Type of duty

<b>Type of duty</b>	<b>Wrongly filed</b>	<b>Correctly filed</b>
Day duty	15	35
Night duty	10	40

(Note: Chi square with one degree of freedom: 5% level = 3.84 and 1% level = 6.63)

**II. Write notes on:** **(8 x 5 = 40)**

1. How will you form a frequency distribution?
2. Calculate mean, median and mode for the following data on waiting time (in minutes) for registration: 15, 7, 13, 20, 25, 8, and 12.
3. Write on three Measures of variation.
4. Addition and multiplication laws of probability.
5. How will you calculate Correlation coefficient? What does it indicate?
6. Calculation of Bed Occupation Rate and its importance.
7. Uses of Hospital statistics.
8. Measures of Morbidity.

**III. Short answers on:** **(10 x 3 = 30)**

1. Two definitions of Biostatistics.
2. Quartiles.
3. Scatter diagram.
4. Histogram.
5. Bar chart.
6. Vital Statistics.
7. Type 1 and Type 2 errors.
8. t - test.
9. Average daily census.
10. Confidence Interval.

\*\*\*\*\*