

**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. Explain in detail of the type of sampling procedure.
2. A certain drug was administered to 500 people out of a total of 800 included in the sample to test its efficacy against typhoid, the results are given below: Find out the effectiveness of the drug against the disease (the table value of  $\chi^2$  for 1 df at 5% level of significance is 3.84)

	Typhoid	No typhoid	Total
Administering the drug	200	300	500
Without administering the drug	280	20	300
Total	480	320	800

3. Explain in sources of the health statistics.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Write short notes on i) Histogram ii) Frequency polygon.
2. Define mean deviation. Also mention its merits and demerits.
3. When two dice are thrown, find the probability of getting doublets (Same number on both dice)?
4. Describe Binomial Distribution.
5. Explain Systematic Sampling.
6. Define Bed Occupation Rate and write how it is calculated?
7. Sources of hospital statistics.
8. Define Neonatal mortality rate, Infant mortality rate.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Define Statistics.
2. Define coefficient of variation.
3. Define Median.
4. What is Sample?
5. What is a Pie Diagram?
6. Define Vital Statistics.
7. What is linear Regression?
8. Define Statistical Probability.
9. Classification of healthy and sick.
10. Define Specific Death Rate.

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