

**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. From the following, find out the mean and standard deviation.

X	18	19	20	21	22	23	24	25	26	27
F	3	7	11	14	18	17	13	8	5	4

2. Explain rates, ratios and percentage with formula.  
3. Explain in detail of the binomial and normal distribution.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Write short notes on (i) Line diagram (ii) Frequency curve.  
2. Calculate the median from the following table.

<b>Marks</b>	0-10	10-20	20-30	30-40	40-50
<b>Frequency</b>	22	36	46	34	20

3. Additional and multiplication theorems of probability.  
4. Define Cluster Sampling technique.  
5. Use of regression equation.  
6. Define Type I and Type II errors.  
7. Explain Crude Birth and Death Rate.  
8. Morbidity measurements.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Define Biostatistics.
2. Define Standard Deviation.
3. Define Mode.
4. Population and Sample.
5. Define of probability.
6. Scatter diagram.
7. Define Chi square test.
8. State a Null Hypothesis.
9. Define Bed Occupation.
10. Define Neonatal mortality rate.

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