## BACHELOR OF MEDICAL RECORD SCIENCE
### (Candidates admitted form 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 the function and scope of statistics.
2. Explain in detail of the type of sampling procedure.
3. Calculate the Mean median and mode for the following data.

| Income Rs (100) | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 |
|---|---|---|---|---|---|---|---|
| Number of Persons | 6 | 8 | 10 | 12 | 7 | 4 | 3 |

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

1. Explain Primary and Secondary data with examples.
2. What is mean by Measures of Central tendency?
3. Calculate the Standard deviation for the following 10 students marks in statistics

| Students No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Marks | 43 | 48 | 65 | 57 | 31 | 60 | 37 | 48 | 78 | 59 |

4. Define
   (i)     Probability
   (ii)    Conditional probability,
5. Procedure and assumption for Testing hypothesis.
6. Uses and Limitation of Hospital statistics?
7. Explain Crude Birth and death rate with examples.
8. Importance of vital statistics?

## III. Write short answers on:                              (10 x 3 = 30)

1. Importance of Biostatistics
2. Draw a histogram for the following data.

| Weekly wages | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 |
|---|---|---|---|---|---|---|---|
| No. of workers | 5 | 10 | 15 | 18 | 7 | 8 | 5 |

3. Define Population and sample.
4. Define Mode with its merits and demerits.
5. What is Null hypothesis and alternative hypothesis?
6. Explain Type I and Type II Error.
7. What is Probability?
8. Steps for calculating chi-square test.
9. Define Sample space.
10. Define Age specific death rate with examples.

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