[KV 862]   **Sub. Code: 4915**

BACHELOR OF MEDICAL RECORD SCIENCE DEGREE EXAMINATION

(For candidates admitted from 2006-07 onwards)
First Year
Paper V – BIO-STATISTICS, HOSPITAL STATISTICS
Q.P. Code : 704915

Time : Three hours   **Maximum : 100 marks**

Answer ALL questions

I. Essays :

1. Define correlation and regression. Calculate the correlation coefficient and obtain the regression line of X on Y for the following data: **(20)**

X	1	2	3	4	5	6	7
Y	9	8	10	12	11	13	14

   Obtain an estimate of X when Y =20.

2. a) What do you mean by classification of data? Describe any two methods of classification with example.   **(8)**

   b) Write down the parts of a table.   **(7)**

3. Compute mean, median and coefficient of variation from the following data.   **(15)**

Weight in kgs:	40-45	45-50	50-55	55-60	60-65	65-70	70-75
No of students:	4	14	24	32	13	8	5

II. Write Short Notes on :   **(6X 5 = 30)**

1. Sample space and probability.
2. Cumulative frequency curves.
3. Collection of hospital statistics.
4. Properties of normal distribution.
5. Distinguish between small sample test and large sample test.
6. Birth rates and death rates.

III. Short Answer Questions: **(10X2 = 20)**

1. Define Arithmetic mean for ungrouped and grouped data.
2. Two uses of coefficient of variation.
3. Define mean deviation.
4. Correlation with two examples.
5. Two uses of scatter diagram.
6. What is association?
7. What is primary data?
8. What are the sources of collecting secondary data?
9. What is histogram?
10. Mention two types of bar diagrams.

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