

February 2012

[LA 0212]

Sub. Code: 4915

BACHELOR OF MEDICAL RECORD SCIENCE (B.M.R.SC.,)

FIRST YEAR

PAPER V – BIO STATISTICS, HOSPITAL STATISTICS

Q.P. Code : 704915

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Elaborate on :

(3 X 10=30)

1. Discuss the various methods of sampling techniques.
2. Explain the presentation of Hospital data.
3. Calculate Mean, Median, Mode for the following data:

10-13	13-16	16-19	19-22	22-25	25-28	28-31	31-34	34-37	37-40
8	15	27	51	75	54	36	18	9	7

II. Write notes on :

(8X 5 = 40)

1. Explain different scales of measurement with examples.
2. Describe Scatter Diagrams.
3. Discuss the methods involved in Research.
4. State Additive and Multiplicative law of Probability.
5. What is meant by sampling and non-sampling errors?
6. Calculate coefficient of variation for the following data:
240.12, 240.13, 240.15, 240.12, 240.17, 240.15, 240.17, 240.16, 240.22, 240.21.
7. Calculate Karl Peason's coefficient of correlation for the data given below:

Height of Husbands (in inches)	60	62	64	66	68	40	72
Height of Wives	61	63	63	63	64	65	67

8. Explain the methods of collecting data

III. Short Answers on :

(10X 3 = 30)

1. Define Bio Statistics.
2. Mention different types of tabulation.
3. Define Binomial Distribution.
4. Define Probability.
5. State the steps involved in significance testing.
6. List out the merits and demerits of Arithmetic Mean.
7. What is meant by Regression?
8. How can we find mode and median graphically?
9. The probability that X and Y will be alive ten years hence is 0.5 and 0.8 respectively.
What is the probability that both of them will be alive ten years hence?
10. Calculate quartile deviation of a persons monthly earnings for a year:

Months	1	2	3	4	5	6	7	8	9	10	11	12
Earnings	239	250	251	251	257	258	260	261	262	262	273	275
