

**[AHS 0321]****MARCH 2021****Sub. Code: 1711****(AUGUST 2020 EXAM SESSION)****B.Sc. MEDICAL RECORD SCIENCE****SECOND YEAR (Regulations 2010-2011, 2015-2016 & 2018-2019)****PAPER I – BIOSTATISTICS AND HOSPITAL STATISTICS*****Q.P. Code : 801711*****Time: Three hours****Answer ALL Questions****Maximum: 100 Marks****I. Elaborate on:****(3 x 10 = 30)**

1. Write on various measures of central tendency and discuss their relative merits.
2. Explain the steps followed in doing research.
3. Find out the usefulness of the vaccine using the following data. (Chi square with 1 degree of freedom: 5% level = 3.84, 1% level=6.63)

	Got disease	Did not get disease	Total
Vaccinated	20	40	60
Not vaccinated	20	20	40
Total	40	60	100

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

1. Forming of frequency distribution.
2. Types of variables.
3. Characteristics of Normal distribution.
4. Theorems of probability.
5. Correlation and Regression.
6. Stratified and systematic sampling.
7. Measurement of morbidity.
8. Uses and Limitation of Hospital Statistics.

III. Short answers on:**(10 x 3 = 30)**

1. Define statistics.
2. Interquartile range.
3. Coefficient of variation.
4. Cluster sampling.
5. Type I and Type II errors.
6. Uses of Scatter diagram.
7. Cumulative frequency curve.
8. Bed Occupancy Rate.
9. Outpatient statistics.
10. Hospital Birth rate and Death rate.



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