

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES**TELANGANA, WARANGAL – 506 002****B.Sc. (ALLIED HEALTH SCIENCES) SECOND YEAR DEGREE EXAMINATIONS:****FEBRUARY, 2026****MEDICAL RECORD SCIENCE****PAPER-III****BIOSTATISTICS AND HOSPITAL STATISTICS****Time: 3 Hours****Max Marks: 80****Note:** Draw diagrams whenever necessary.**Write an essay on any TWO of the following questions:****2 X 10 = 20**

1. Discuss the uses and limitations of Hospital statistics.
2. Write on measures of central tendency and their relative merits.
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)

Details	Got disease	Did not get disease	Total
Vaccinated	12	38	50
Not vaccinated	24	26	50
Total	36	64	100

Write a short note on any FIVE of the following:**5 X 6 = 30**

4. Various sampling techniques.
5. Types of variables in statistics.
6. Correlation and Regression.
7. Theorems of Probability.
8. Poisson distribution.
9. Steps in test of association.

Write briefly on the following:**10 X 3 = 30**

10. Calculate Median and Mode for the following:

5, 11, 9, 5, 7, 3, 5, 9, 1.

11. Define Crude Death rate.
12. Primary and secondary data.
13. Standard deviation.
14. Population and sample size.
15. Define Biostatistics.
16. t - Test.
17. Define Epidemic.
18. Define Harmonic mean.
19. Null Hypothesis.
