

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
TELANGANA, WARANGAL – 506 002****B.Sc. (Allied Health Sciences), SECOND YEAR DEGREE SUPPLEMENTARY EXAMINATIONS:
OCTOBER, 2025****MEDICAL RECORD SCIENCE
PAPER III
BIOSTATISTICS AND HOSPITAL STATISTICS****Time: 3 Hours****Max Marks: 80****Note:** Draw diagrams whenever necessary with Black Ball point pen /HB pencil /any dark
Color pencil.**Write essay on any TWO of the following questions:****2 X 10 = 20**

1. Calculate the Standard deviation and Coefficient of variation for the following data.

Systolic BP	70-80	81-90	91-100	101-110	111-120	121-130	131-140	141-150	151-160	>160
Count	10	15	20	24	38	28	22	15	12	10

2. Explain the steps followed in preparation of Research proposal.
3. Explain Binomial, Poisson and Normal distribution in detail.

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

4. Define primary and secondary data and compare.
5. What are Probability sampling and types?
6. Define Type I and Type II errors.
7. What is Bar diagram and Histogram? Enumerate the differences between the two.
8. Explain in brief Corelation and Regression.
9. Enumerate advantages and disadvantages of Randomized control trial.

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

10. Define Median.
11. How to calculate mean deviation?
12. What is Snowball sampling?
13. Define Hypothesis and mention types of Hypotheses.
14. Explain 't' test.
15. What is Maternal mortality rate? Mention the formula.
16. What are the uses of Health statistics?
17. What is Standard morality rate and how do you calculate it?
18. Write a short note on Pie chart?
19. Define Statistics and Biostatistics.
