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TELANGANA STATE, WARANGAL – 506 002

MPH FINAL YEAR DEGREE EXAMINATIONS: JANUARY, 2024

BIOSTATISTICS AND DATA MANAGEMENT

PAPER – I

Time: 3 Hours.

Max Marks: 70

Note: Answer all questions.

Give Diagrammatic representation wherever necessary.

Write an essay on the following:

2 X 10 = 20

1. Define survival analysis. Define censoring and types of censoring. Give scenarios where a researcher can perform survival analysis.
2. Define non-probability sampling. Explain different types of non-probability sampling.

Write a short note on the following:

6 X 5 = 30

3. Write a short note on Regression analysis.
4. What is the Cox proportional hazards model.
5. What is a residual. How is it computed.
6. List the principles steps of sample surveys.
7. How does a longitudinal data models differ from linear regression models.
8. Differentiate between systematic and narrative review.

Write briefly on the following:

10 X 2 = 20

9. What does coefficient of determination explain.
10. Define Multicollinearity.
11. Describe type of errors.
12. What do you mean randomization.
13. What is a link function in generalized linear models.
14. Define the log-rank test.
15. Describe the Systematic sampling
16. Define the publication bias.
17. Why do a meta-analysis.
18. What is Randomized Clinical Trial.
