

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAHMUNDRY

(Accredited by NAAC "A+" Grade)

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

II B.Sc. (Hons)-AI: Semester-III

Inferential Statistics

MODEL QUESTION PAPER (W.E.F 2023-2024)

Time: 2 ½ Hrs.

Max Marks: 50 M

SECTION - I

Answer any FIVE Questions

5 X 3= 15M

1. Explain about the consistency.
2. Write a short note on confidence coefficient.
3. Write a short note on a critical region.
4. Single mean with example.
5. Explain about paired t-test..
6. Explain Student's t-distribution.
7. Properties of F-distribution.
8. Write a short note on the Sign test..

SECTION - II

Answer following question

5 X 7 = 35M

9. Explain about Maximum Likelihood estimator (MLE).
(OR)
10. Explain about the Criteria of a good estimator.
11. Explain about Tests of significance of large samples.
(OR)
12. Explain about Neyman Pearson lemma (WITHOUT PROOF) and its applications.
13. Explain applications of Snedecor's F Distribution
(OR)
14. Explain Chi-square distribution-.
15. Explain ANOVA two-way classification.
(OR)
16. Explain about the F-test for equality of two population variances.
17. Explain about the Wilcoxon-signed rank test.
(OR)
18. Explain about about the Kruskal Wallis test