

**GOVERNMENT COLLEGE (AUTONOMOUS), RAJAHMUNDRY**

(Accredited by NAAC "A+" Grade)

**DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS**

Semester-V

**PREDICTIVE ANALYTICS USING PYTHON**

MODEL QUESTION PAPER

**Time: 2½ Hrs.**

**Max Marks: 50**

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**SECTION - I**

Answer any **FIVE** Questions

**5 X 3 = 15M**

1. Write a short note on Ridge regression?
2. Explain about Linear Discriminant Analysis?
3. Write about Bias and Variance?
4. Explain about Cross-validation?
5. What is the AdaBoost boosting method?
6. Write about Neural Networks (NN)?
7. What are the properties of Reproducing Kernels?
8. Difference between supervised and unsupervised learning?

**SECTION - II**

Answer **ALL** Questions

**5 X 7 = 35M**

9. Explain about Linear regression models?

(OR)

10. What are linear methods of regression?

11. Explain about Additive Models?

(OR)

12. Explain about Boosting Methods?

13. Explain about Classification and Regression trees CART ?

(OR)

14. Explain about Bootstrap methods?

15. Explain about Support Vector Machines (SVM)?

(OR)

16. Explain about K-nearest Neighbour classifiers?

17. What is cluster analysis and explain types of cluster analysis?

(OR)

18. What is Random forest? What are the advantages and disadvantages of Random forest?