M.Sc. DEGREE EXAMINATION,APRIL 2020
I Year I Semester
Introduction to Machine Learning

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Define Supervised Learning.
2. What is meant by Noise?
3. Define Multivariate Regression.
4. What is meant by Imputation?
5. What is the use of Forward selection in subset selection?
6. Define isomap.
7. What is meant by potential function?
8. Define pruning.
9. What is meant by multilayer perceptron?
10. Define Kernel.
11. What is meant by Hierarchical Clustering?
12. Define Multivariate trees.

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Write short notes on Association Rules.
14. Describe about Regression.
15. Write short notes on Multidimensional Scaling.
16. Describe about Pruning .
17. Write short notes on Perceptron.
18. Describe Bayer's Estimator.
19. Write short notes on Multivariate Regression.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Explain Bayesian Classification theory?
21. Elaborate Maximum Likelihood Estimation.
22. Explain K-Means clustering.
23. Explain Smoothing methods in Nonparametric methods.
24. Describe briefly about Backpropagation Algorithm.

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