

MACHINE LEARNING (CSE-S520)

Semester: 2022-23 (Odd Semester)

Year: 4th year(2k19)

END SEMESTER EXAMINATION

Time: 3 h

Maximum marks: 50

Note:- All questions are compulsory

Section A

10 marks (10 Questions of 1 Mark each)

1. What is bootstrap Sampling?
2. What is data modeling?
3. Define the concept of consistent learners?
4. If your dataset is suffering from high variance, how would you handle it?
5. What is the difference between regularization and normalization?
6. What is Linear Regression?
7. Define support vectors in SVM model.
8. What do you understand by market sentiment analysis?
9. Give any three examples of supervised learning.
10. What is validation error in the KNN algorithm?

Section B

20 marks (5 Questions of 4 Marks each)

11. Write any three strengths and weaknesses of the decision tree.
12. Explain machine learning life cycle.
13. Explain random forest Model.
14. Explain logistic regression.
15. Explain rise, run and slope in a graph.

Section C

20 marks (2 Questions of 10 Marks each)

16.
 - A) What is the conditions of a positive slope in a linear regression?
 - B) Explain any five Examples of classification problem in brief.
17. Explain Entropy and Information gain of a decision tree with a suitable example. Which should be preferred among Gini Impurity and Entropy.