SP-140

Total No. of Pages : 1

Seat No.	

T.Y. B.Tech. (Computer Science and Engineering)
(Semester - VI) (CBCS) Examination, November - 2023
MACHINE LEARNING
Sub. Code : 81549

Day and Date : Thursday, 23 - 11 - 2023 **Total Marks : 70**

Time : 2.30 p.m. to 5.00 p.m.

Instructions :
1) **Questions No. 6 is compulsory.**
2) **Solve any four questions from Q. No. 1 to Q. No. 5.**
3) **Assume suitable data wherever necessary.**
4) **Figures to the right indicate full marks.**

Q1) a) Explain gradient descent for neuron. **[8]**

b) Which are the Pros and Cons of SVM Classifiers? **[7]**

Q2) a) Explain unsupervised learning. **[8]**

b) What is hypothesis function for multivariate linear regression? **[7]**

Q3) a) Explain K - Nearest Neighbour Classifier. **[8]**

b) Explain reinforcement learning. **[7]**

Q4) a) Explain gradient descent for simple linear regression. **[8]**

b) Explain decision boundary logistic regression. **[7]**

Q5) a) Explain decision tress algorithm. **[8]**

b) Explain Hierarchical clustering. **[7]**

Q6) Write a short note on: (Any 2) **[10]**

a) Apriori algorithm.

b) Collaborative Filtering in recommendation system.

c) K Means clustering.

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