

Trimester: May 2021 - July 2021 Examination: Practical Examination			
Programme code:09 Programme: MCA		Class: FY	Trimester: III (SVU 2021)
Name of the Constituent College: K. J. Somaiya Institute of Management		Name of the department/Section/Center: DST	
Course Code: 117P05L301	Name of the Course: Artificial Intelligence and Machine Learning Lab		
Time: 3 hrs			Marks: 30

Instructions:

- Viva will be taken at the time of practical as well as after the practical if required.
- The figures to the right indicate full marks.
- Dataset is provided separately.
- Q1. The soybean.csv dataset contains 35 categorical attributes, some nominal and some ordered. Develop a model to predict the class of soybean based on the given attributes. [20]
 - 1. Find limitation with data if any in developing the model.
 - 2. Develop the model to predict the soybean class using K nearest neighbors algorithm.
 - 3. Improve the model by changing the various parameters of the algorithm.
 - 4. Evaluate the model.
- Q2. Using linear regression algorithm to predict the medical insurance charges based on the data given in med_insurance.csv. [10]
 - 1. Develop the model to predict the medical insurances charges.
 - 2. Evaluate the model.