

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. Develop to predict the mail as spam or not based on the different word frequency using spam.csv. **[20]**

1. Analyse the data Visually.
2. Find limitation with data if any in developing the model.
3. Develop the model using logistic regression algorithm.
4. Perform Cross Validation and find the best results.
5. Compare the performance with K nearest neighbors algorithm.

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.