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 digits.csv dataset consists of 16 input attributes to classify 10 digits.

[20]

1. Develop the model to predict the digits based on the features using Random Forest classification algorithm.

2. Try to improve the model by using various values for the parameters.

3. Compare the performance of the model with ANN.

Q2. Use mall_customers.csv to predict the spending score of the customers based on gender, age and annual income. **[10]**